

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

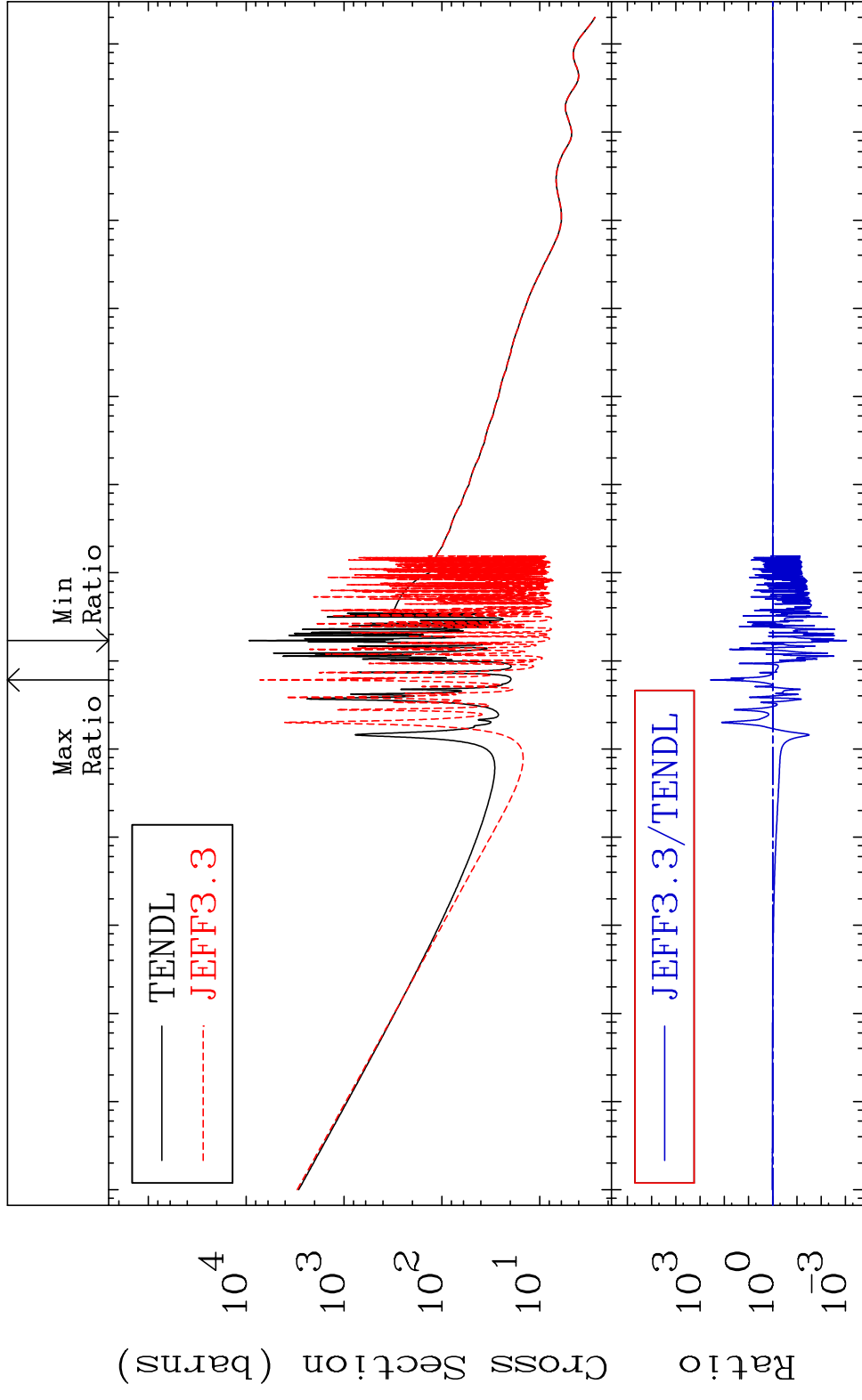
Tele: 925-443-1911

E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7428

Total Cross Section -99.91 To 9999. %
74-W -181



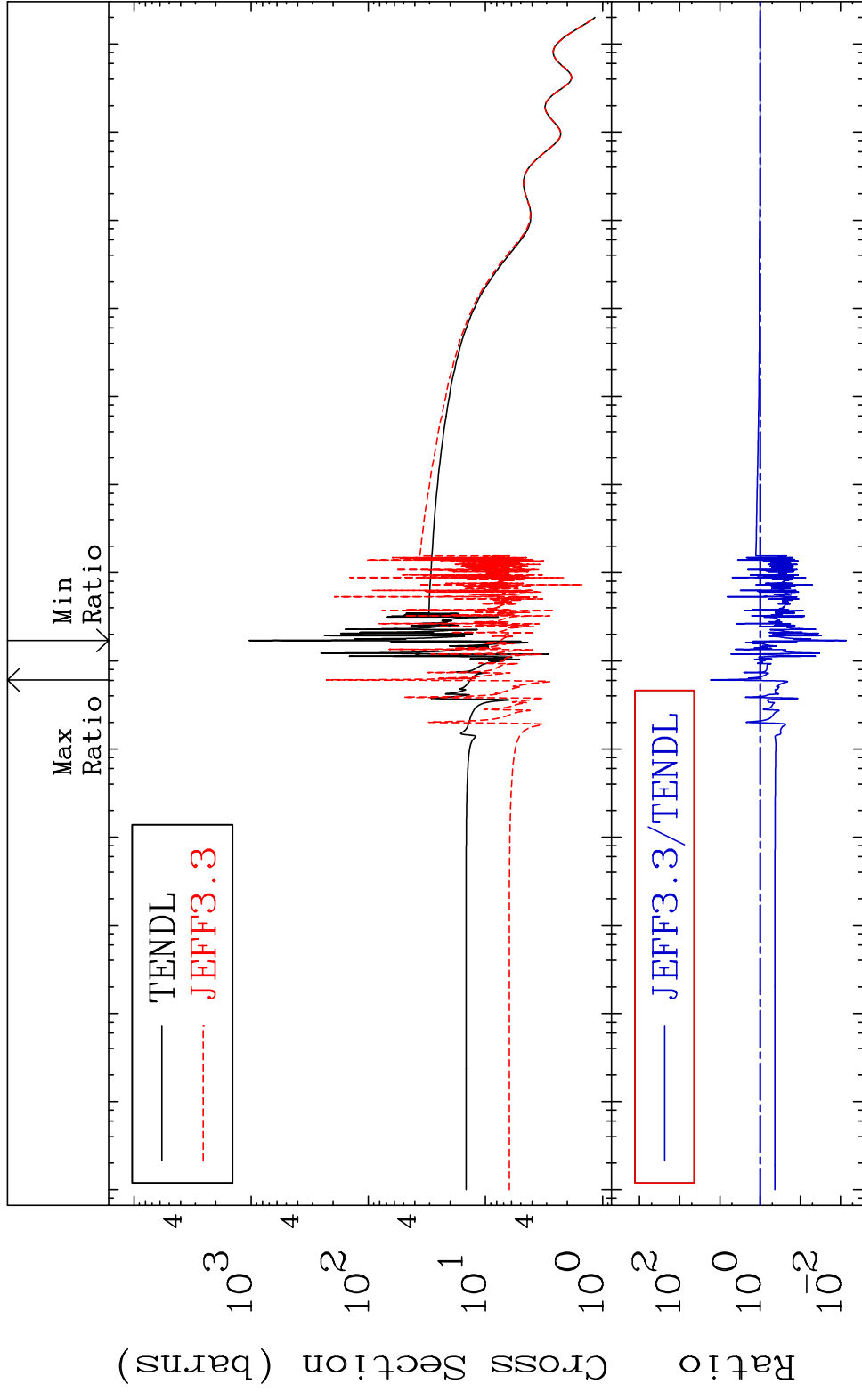
1

Incident Energy (eV)

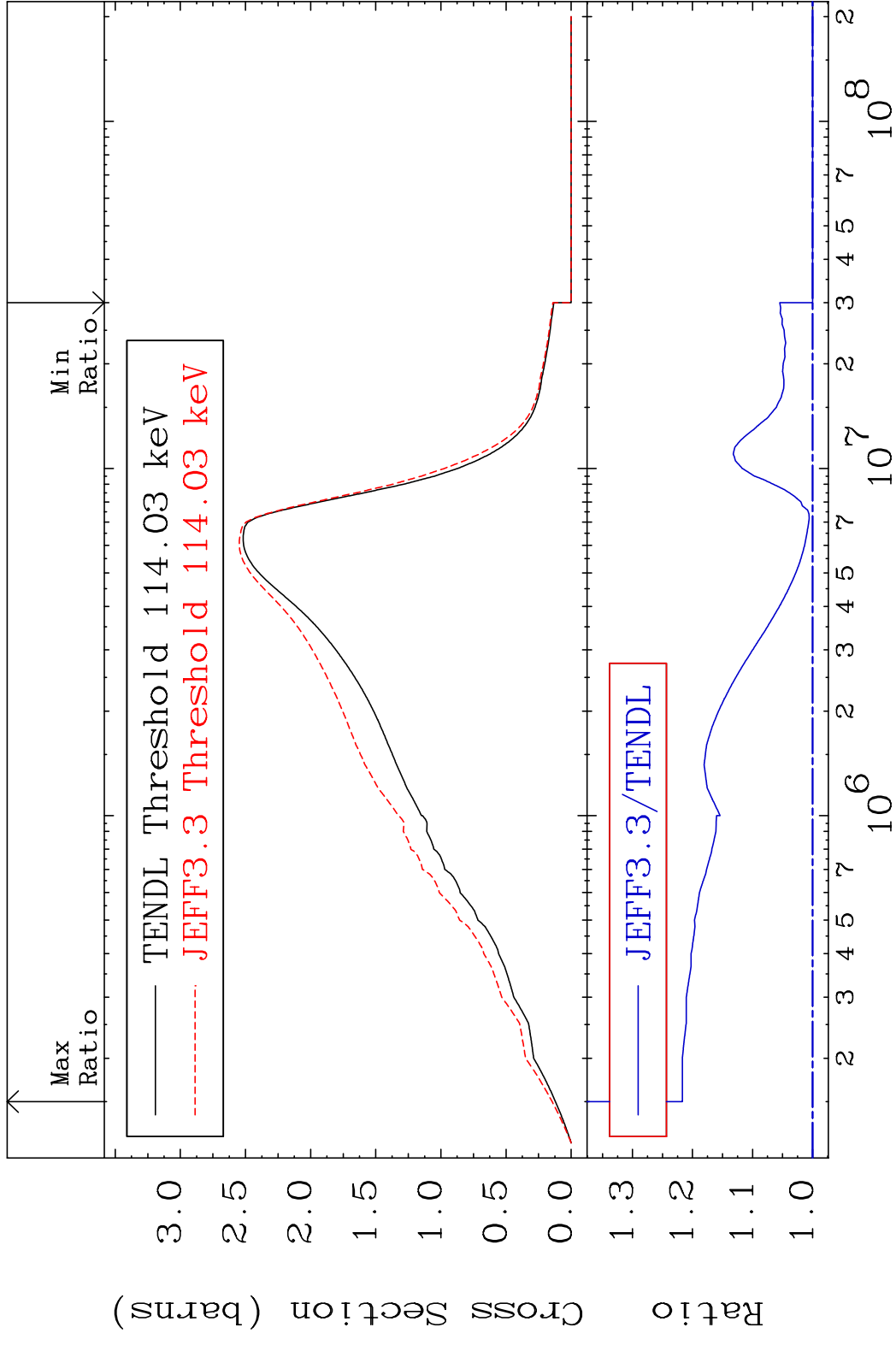
74-W -181

MAT 7428

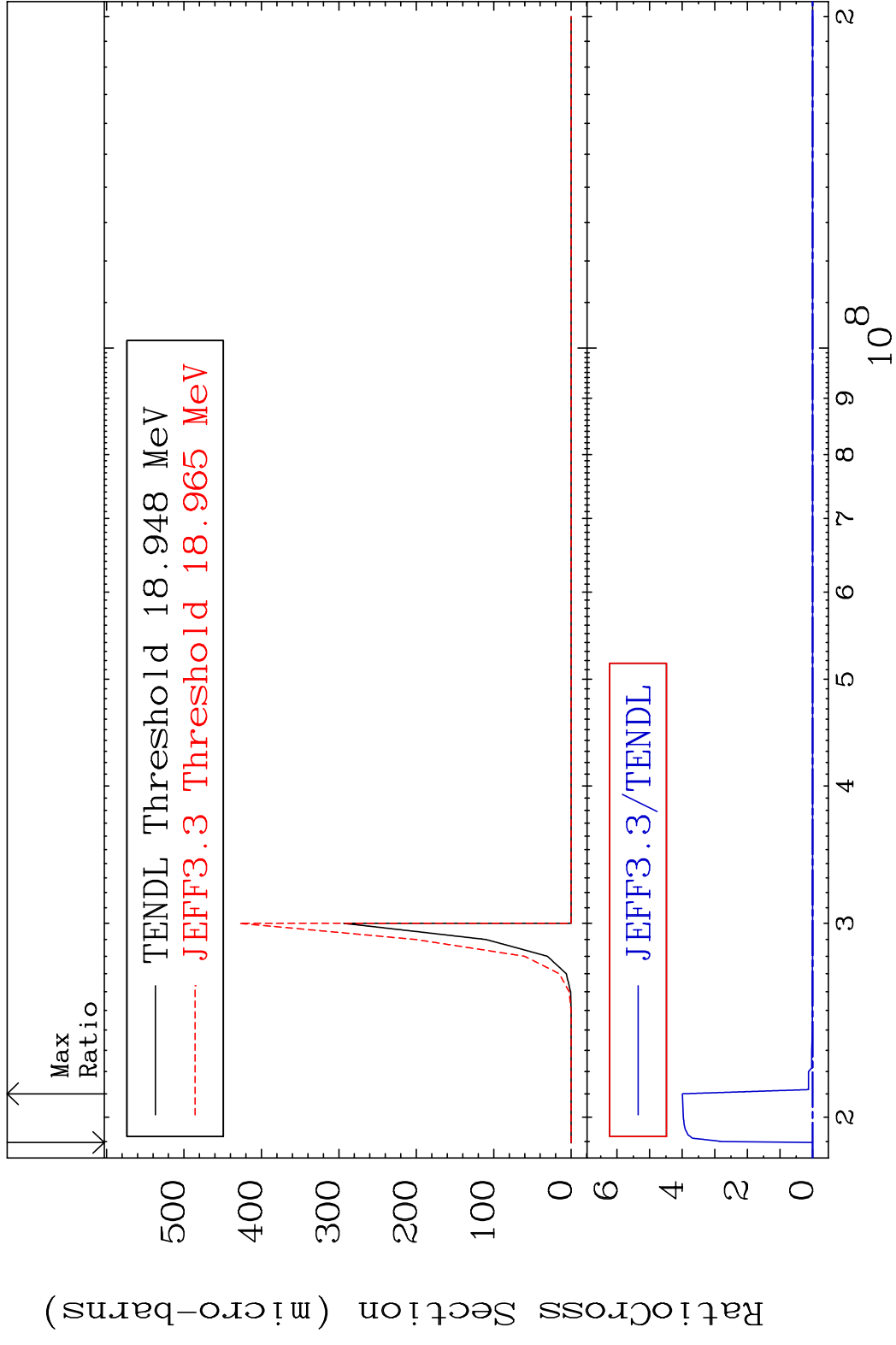
Elastic Cross Section -99.29 To 1593. %
74-W -181



MAT 7428 Inelastic 74-W -181
 Cross Section 0.000 To 21.70 %



MAT 7428 (n,2n) d 74-W -181
 Cross Section -100.0 To 9999. %

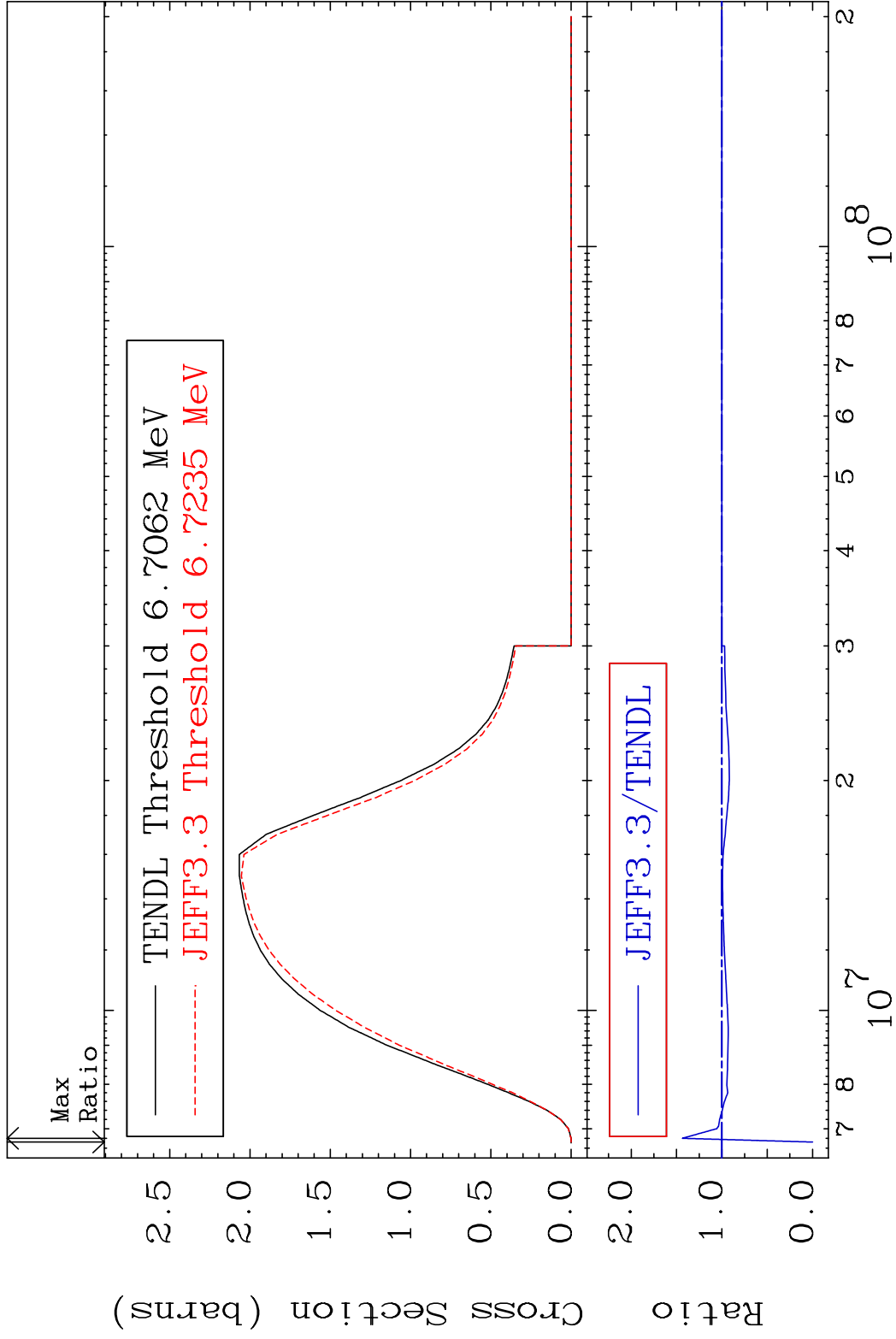


MAT 7428

(n,2n)

74-W -181

Cross Section -100.0 To 43.59 %



5

Incident Energy (eV)

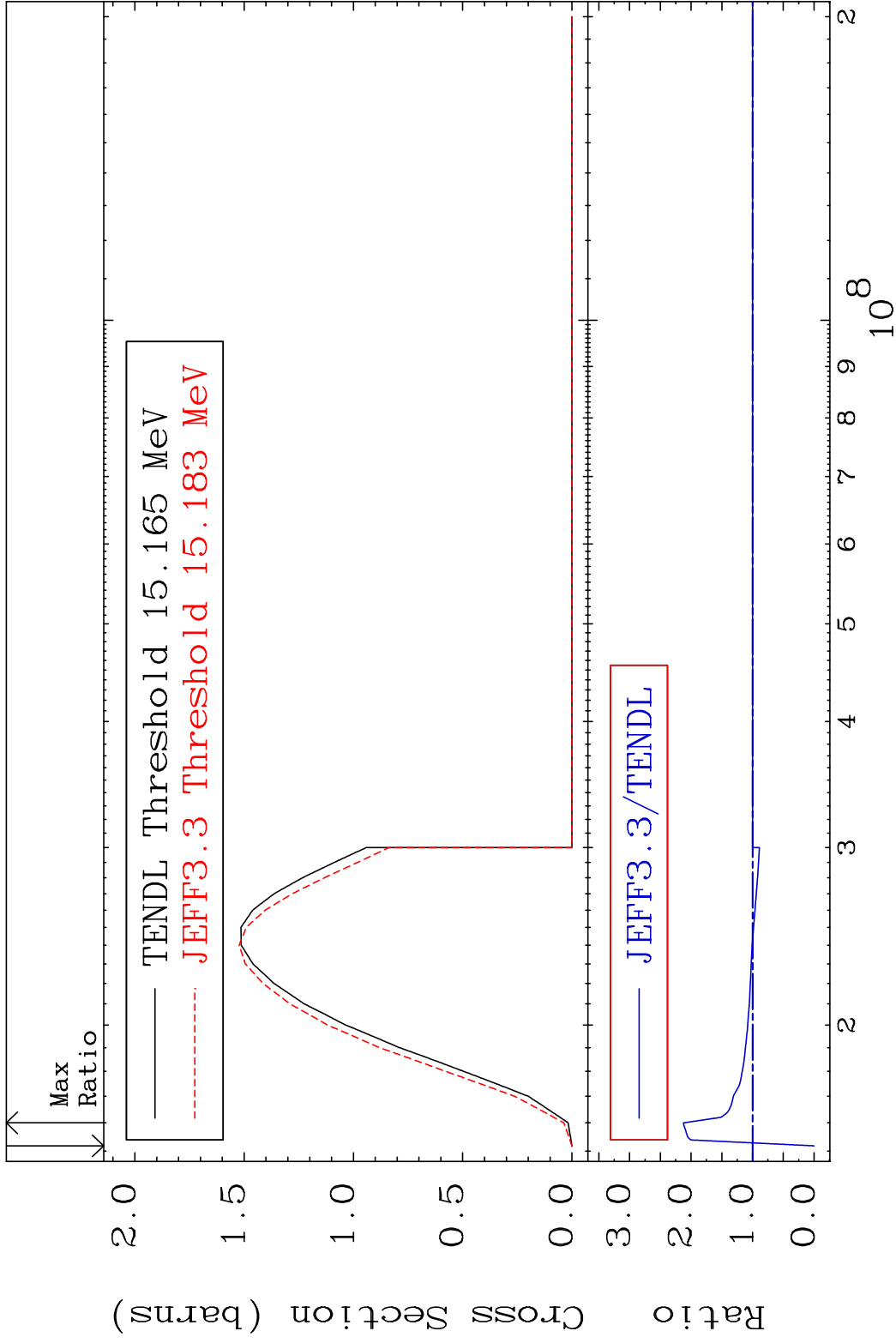
74-W -181

MAT 7428

(n,3n)

74-W -181

Cross Section -100.0 To 112.4 %



6

Incident Energy (eV)

74-W -181

MAT 7428

(n, n') α

74-W -181

Cross Section -37.32 To 9999. %



10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

7

Incident Energy (eV)

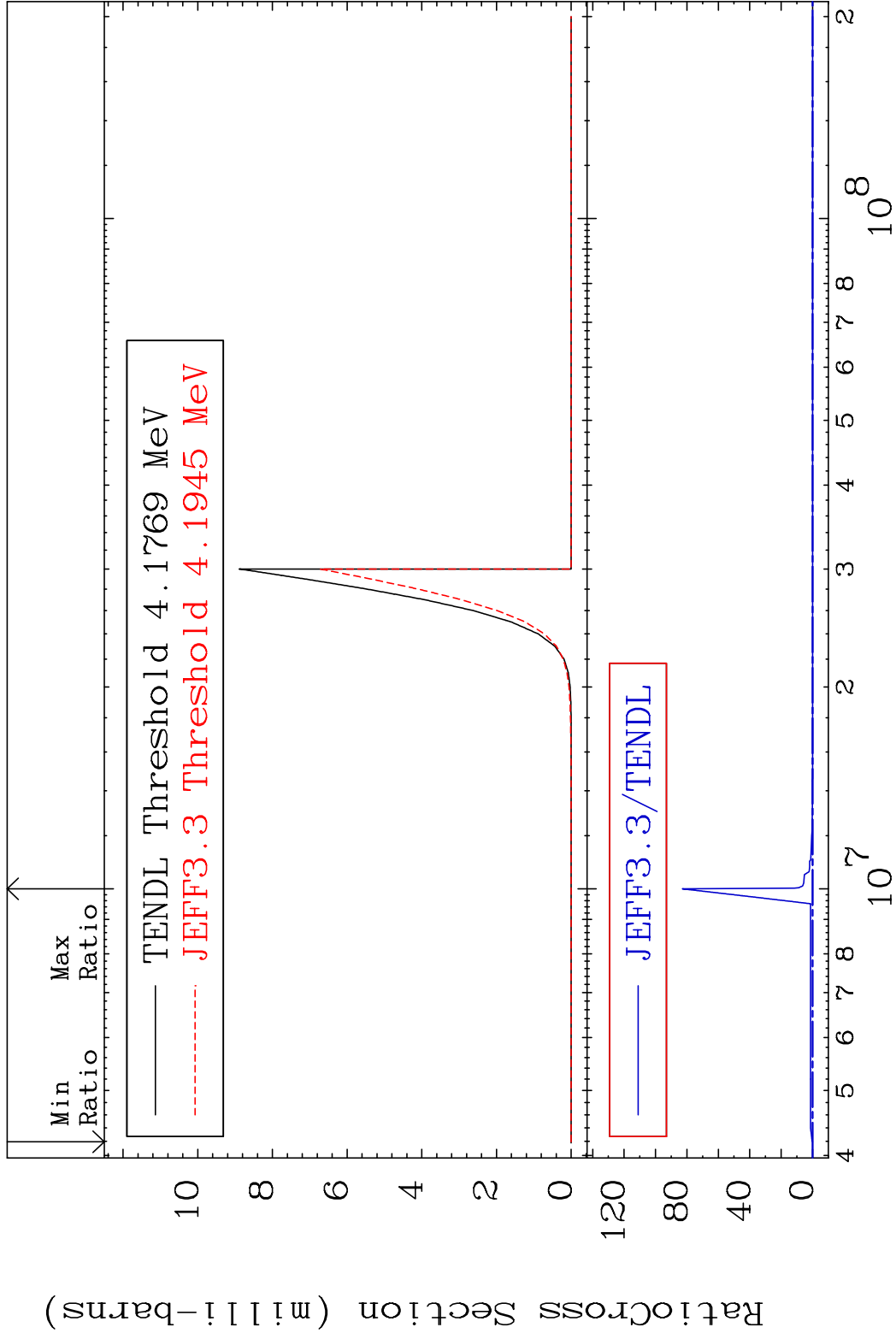
74-W -181

MAT 7428

(n,2n) α

74-W -181

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

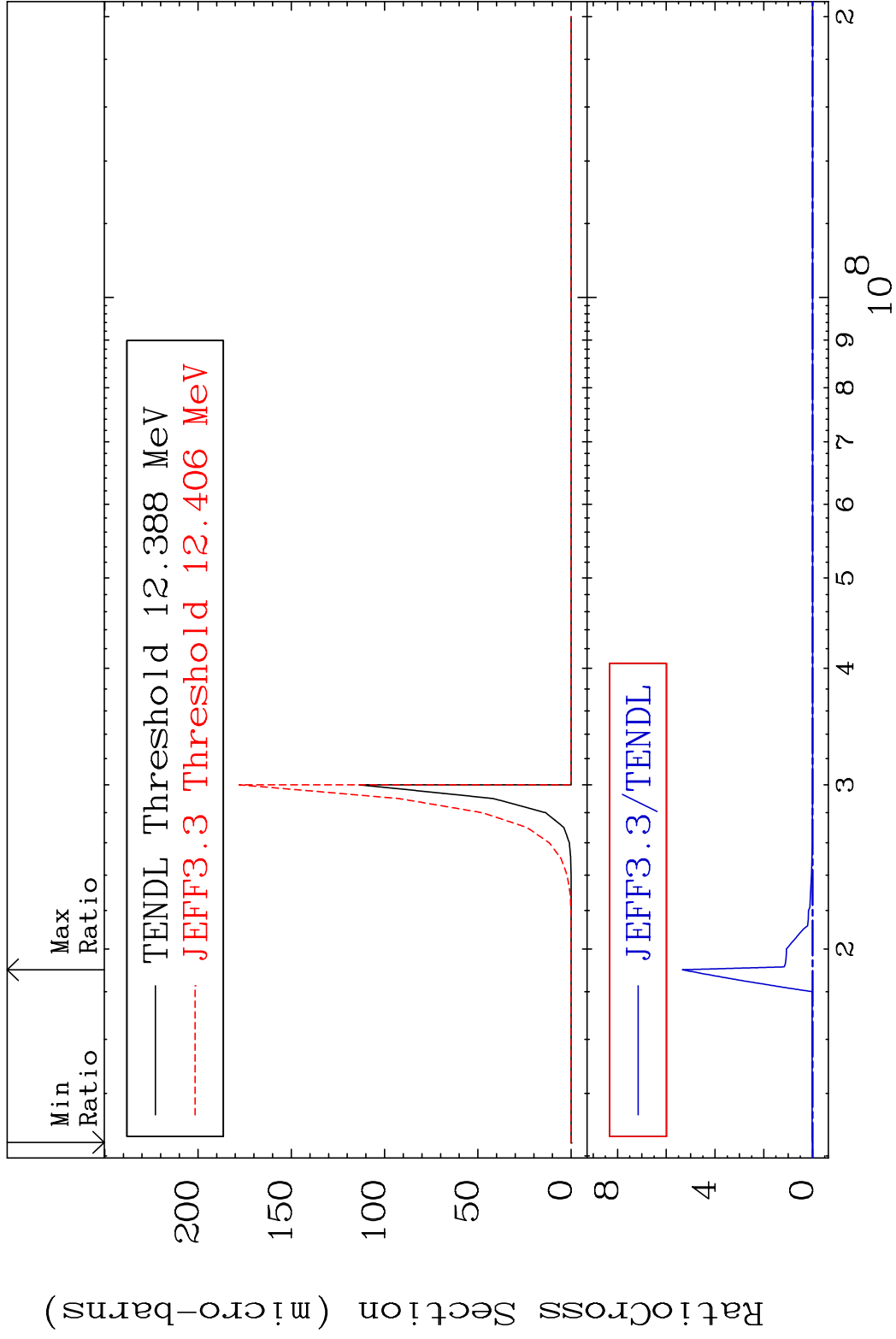
74-W -181

MAT 7428

(n,3n) α

74-W -181

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

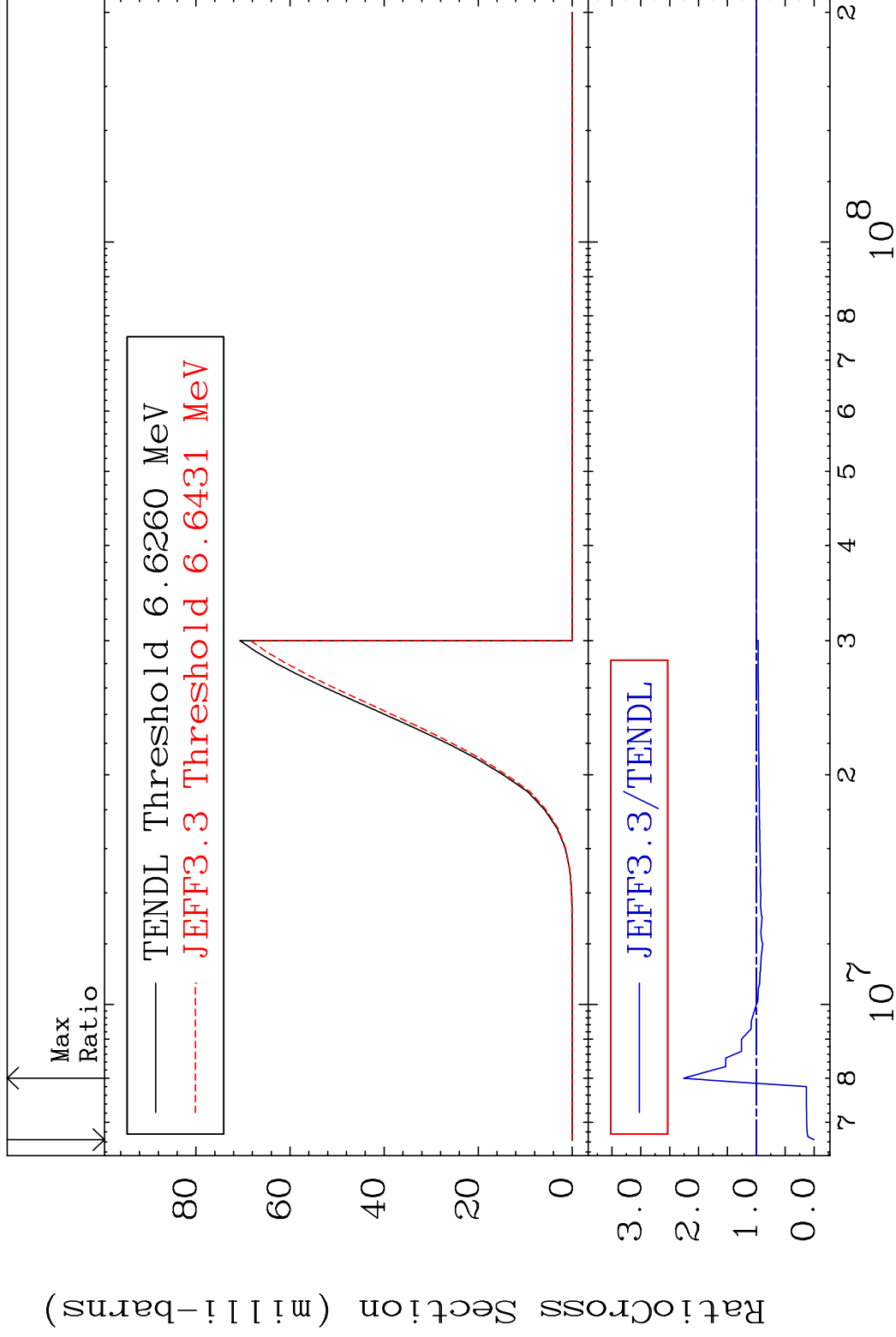
74-W -181

MAT 7428

(n, n') p

74-W -181

Cross Section -100.0 To 125.8 %



10

Incident Energy (eV)

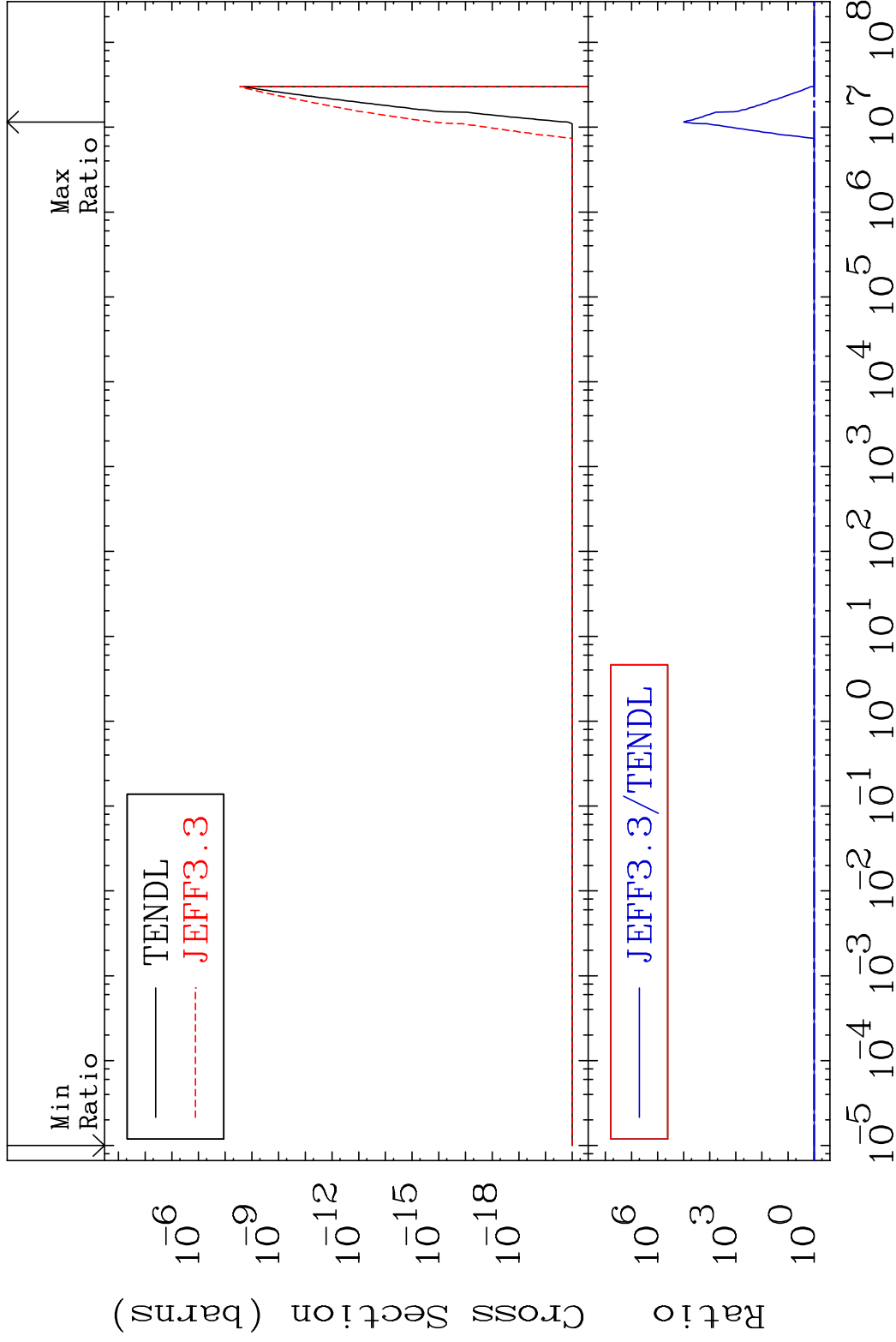
74-W -181

MAT 7428

(n, n') 2α

74-W -181

Cross Section 0.000 To 9999. %

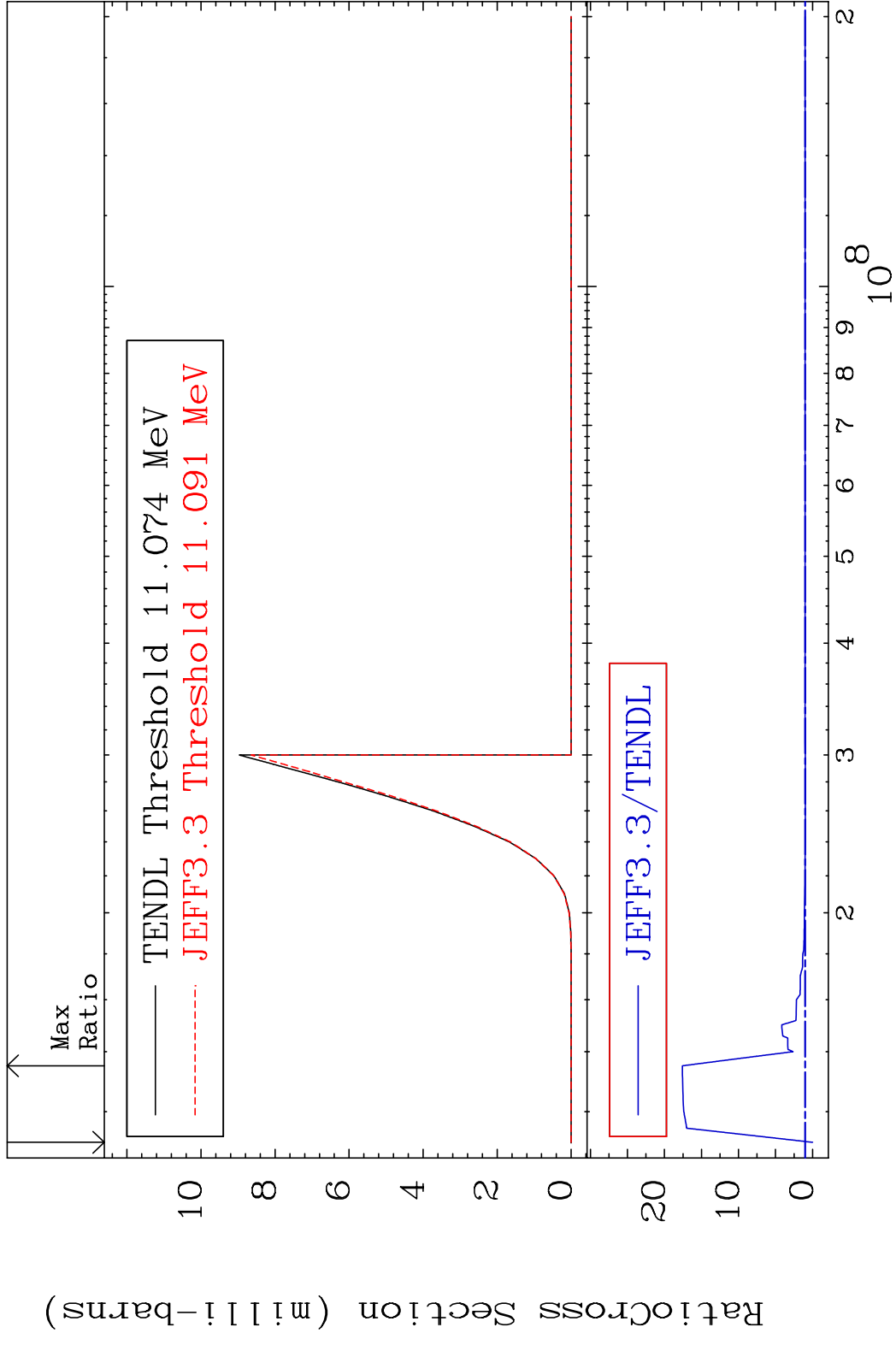


11

Incident Energy (eV)

74-W -181

MAT 7428 (n, n') d 74-W -181
 Cross Section -100.0 To 1658. %

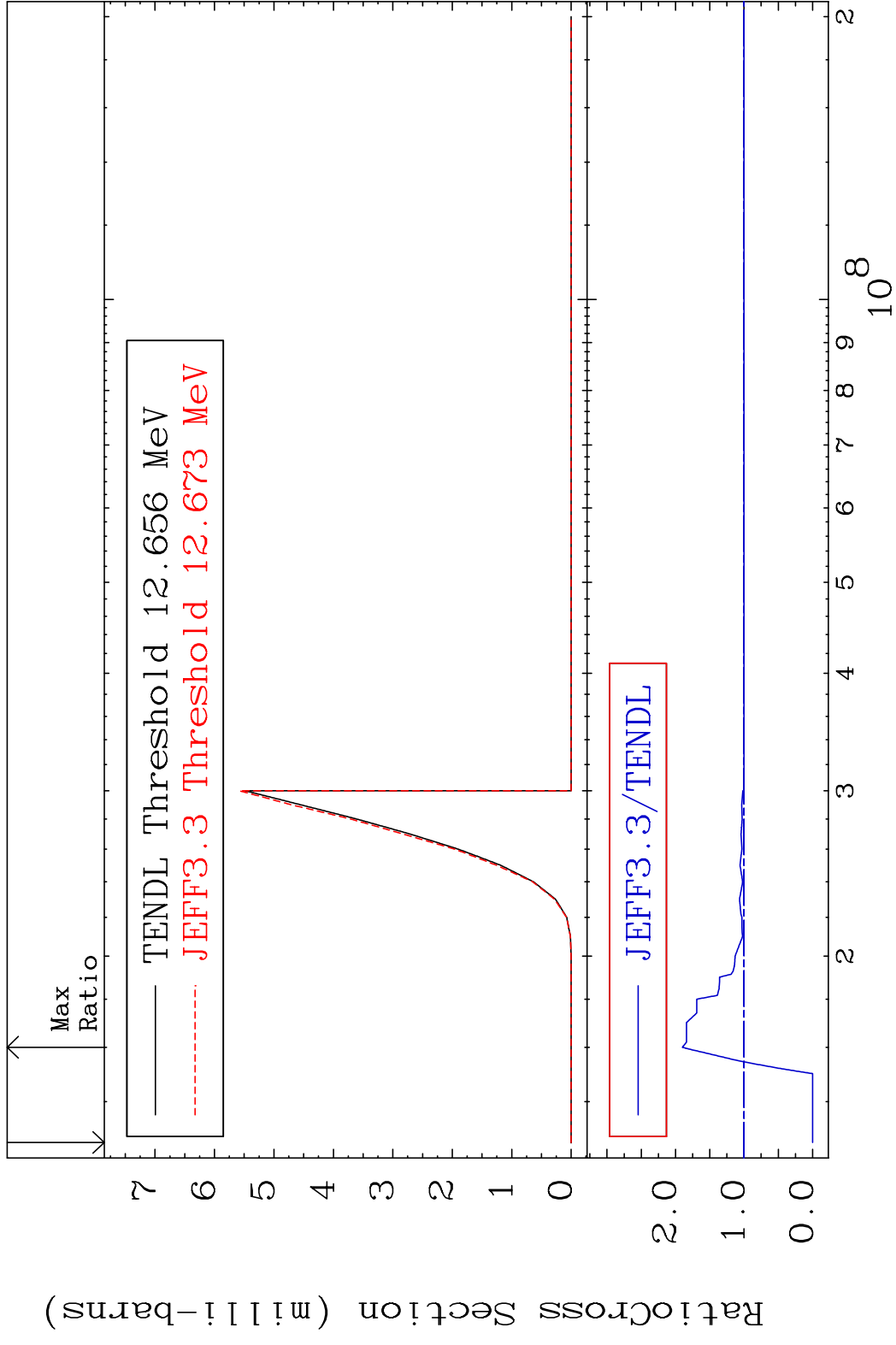


MAT 7428

(n, n') t

74-W -181

Cross Section -100.0 To 90.03 %

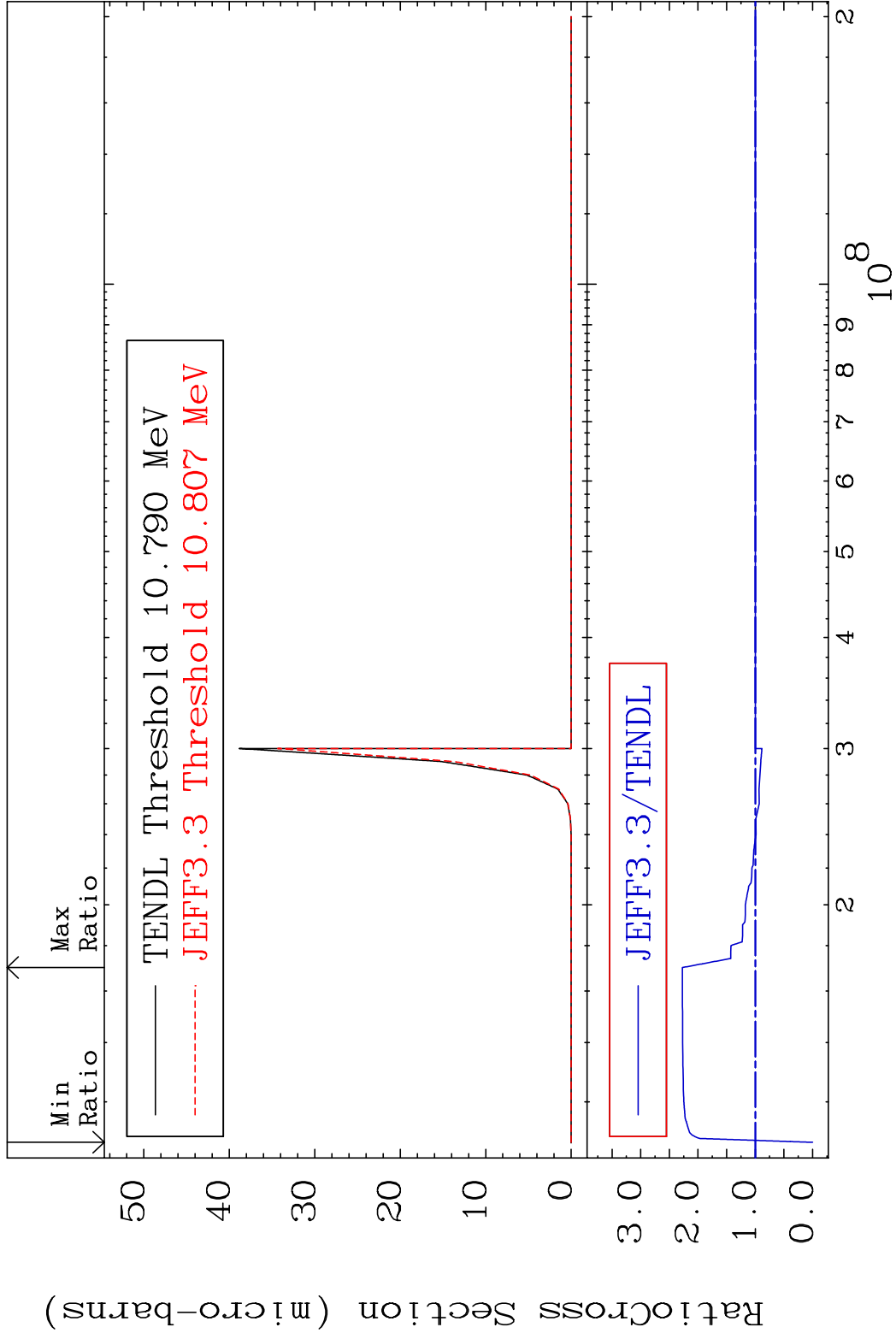


MAT 7428

(n,n') He-3

74-W -181

Cross Section -100.0 To 127.3 %

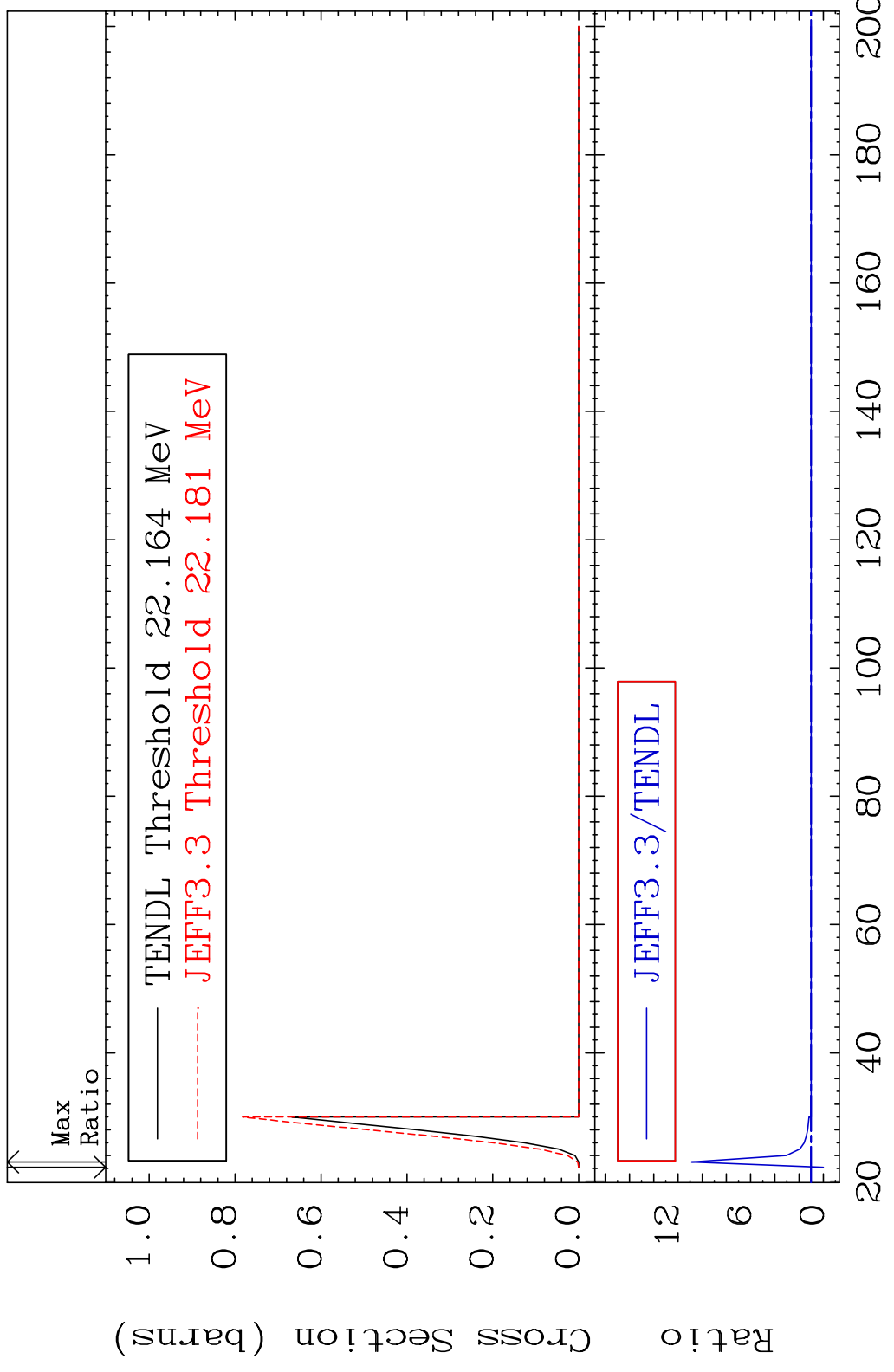


MAT 7428

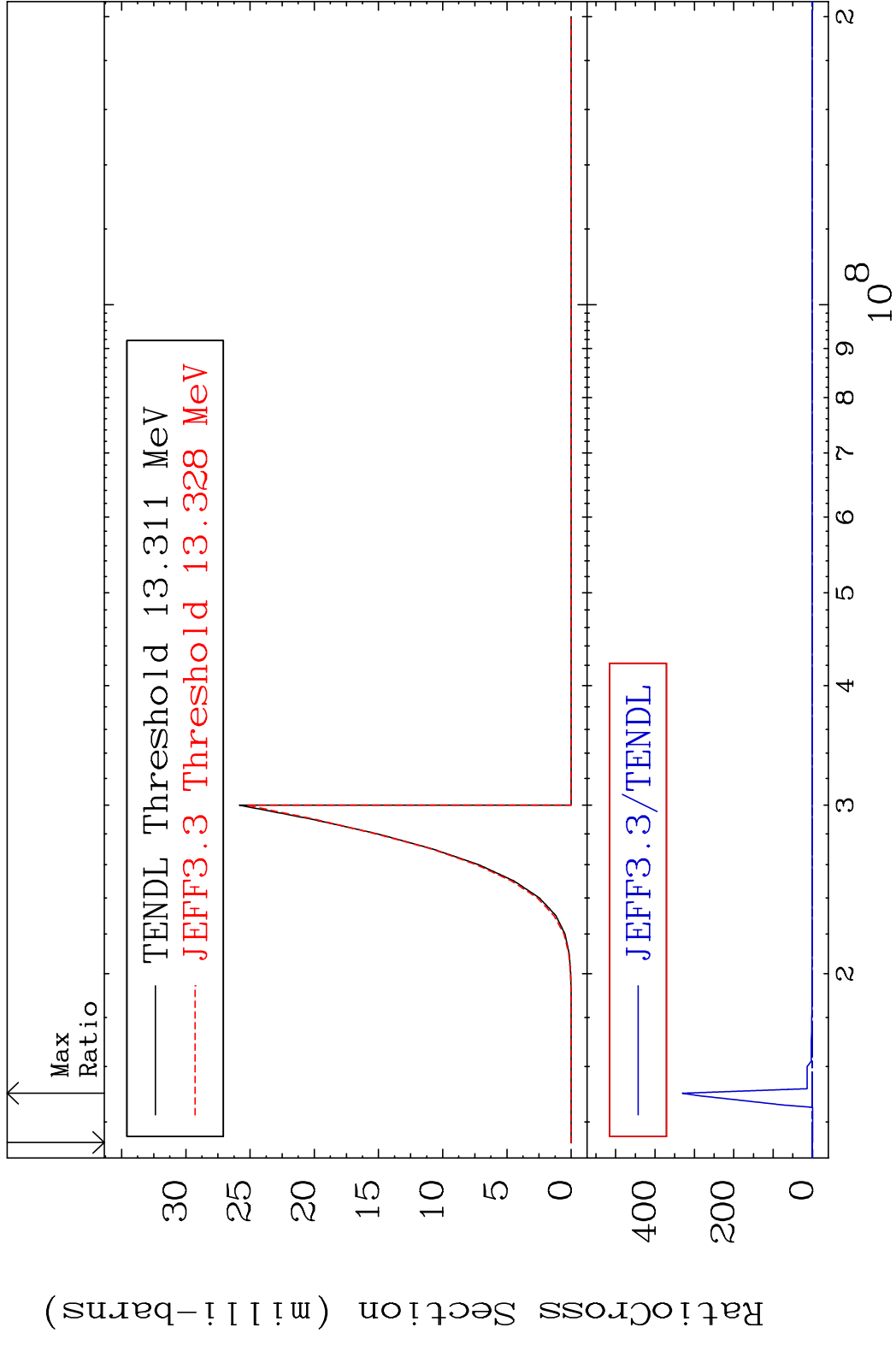
(n, 4n)

74-W -181

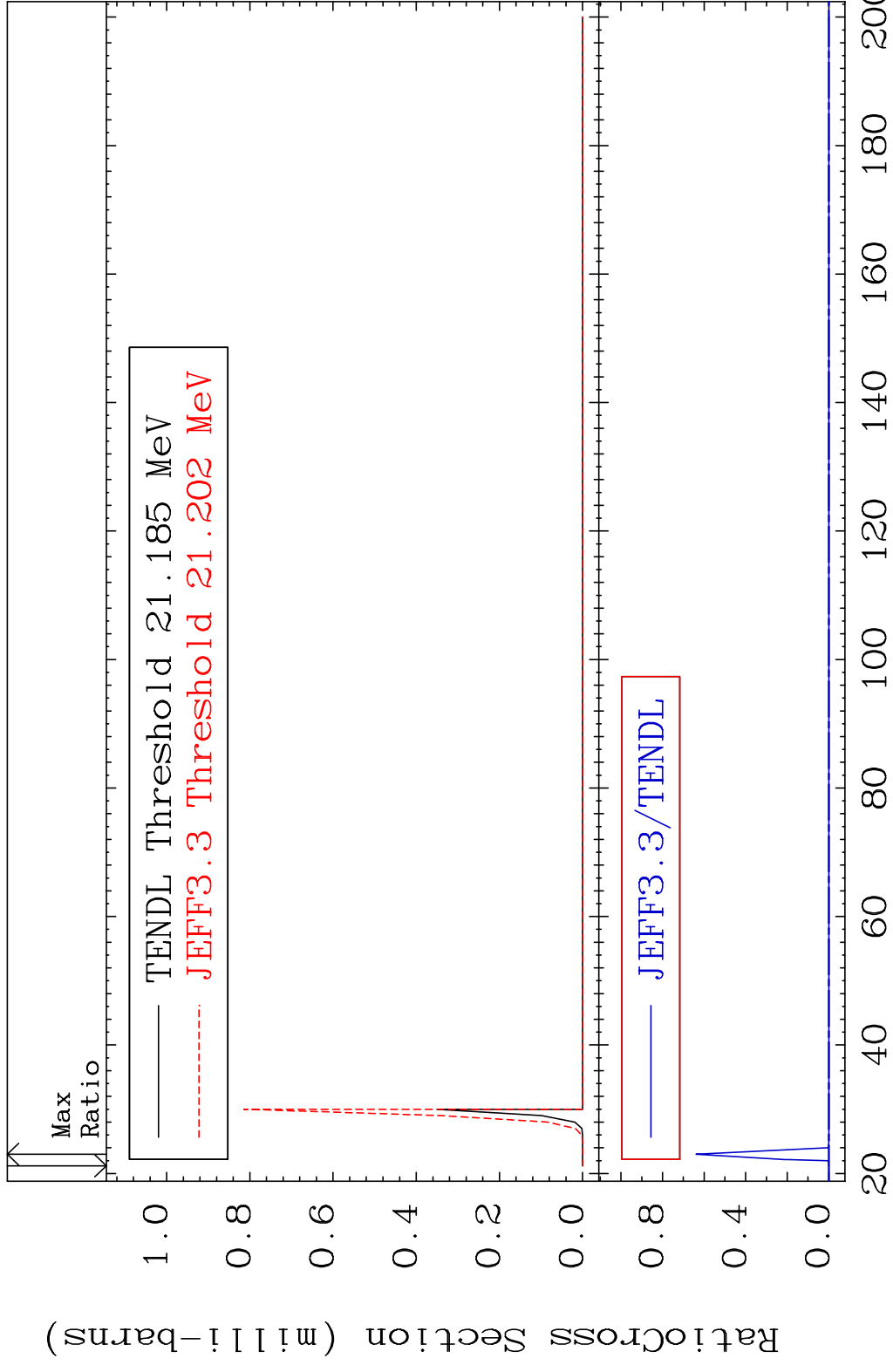
Cross Section -100.0 To 989.0 %



MAT 7428 (n,2n) p 74-W -181
 Cross Section -100.0 To 9999. %

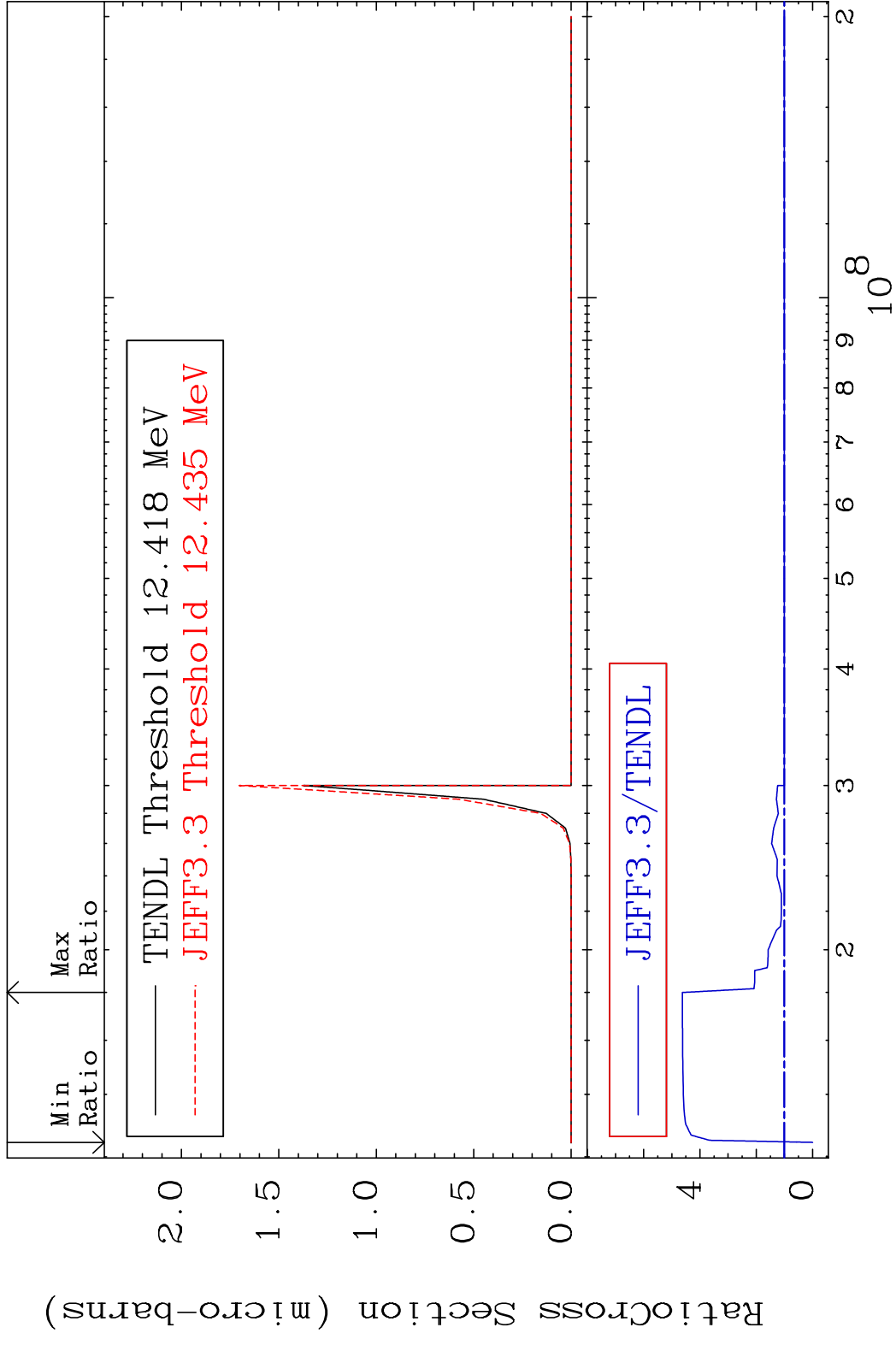


MAT 7428 (n,3n) p 74-W -181
 Cross Section -100.0 To 9999. %



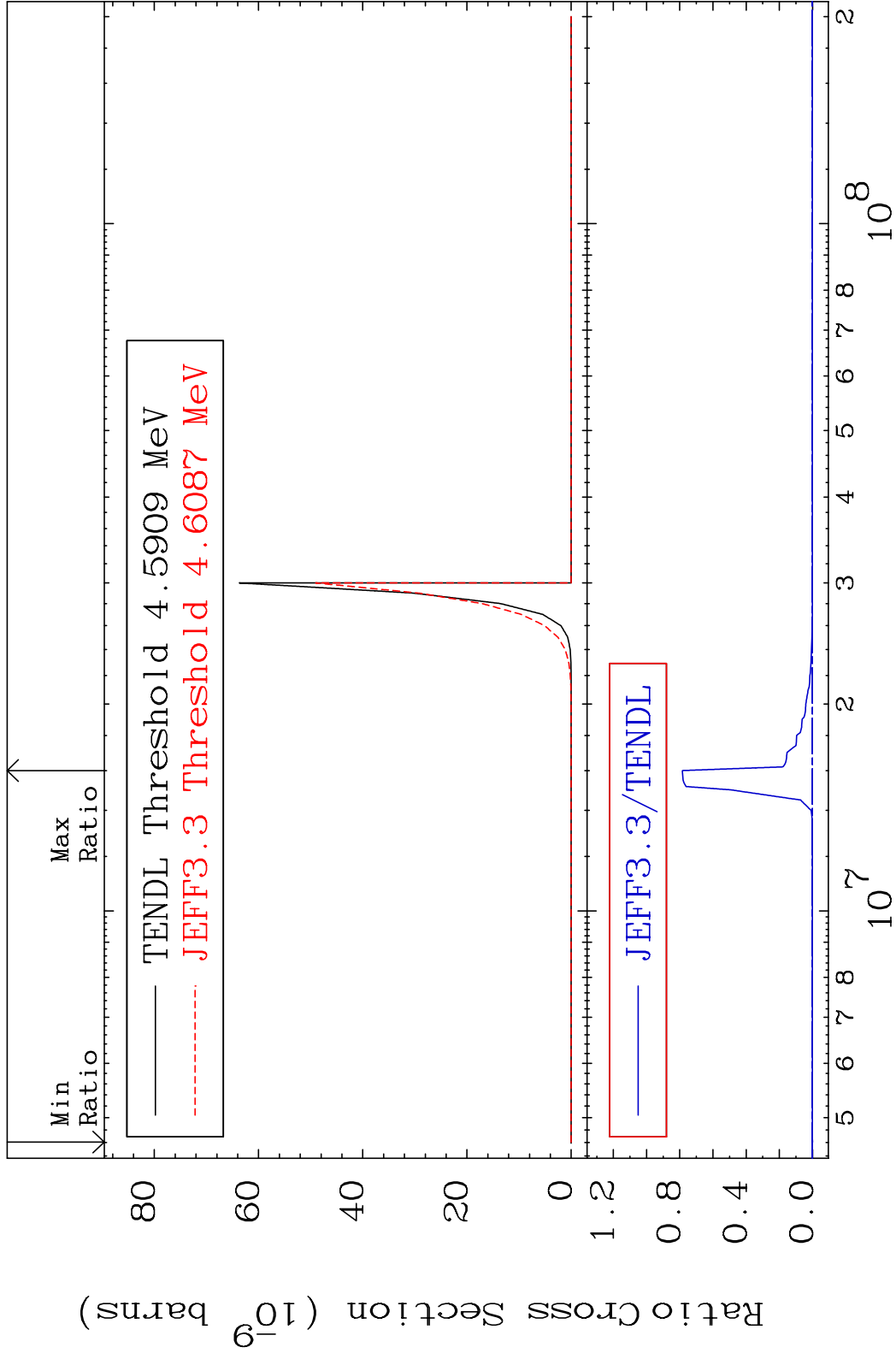
MAT 7428

(n,2n) p 74-W -181
Cross Section -100.0 To 362.5 %

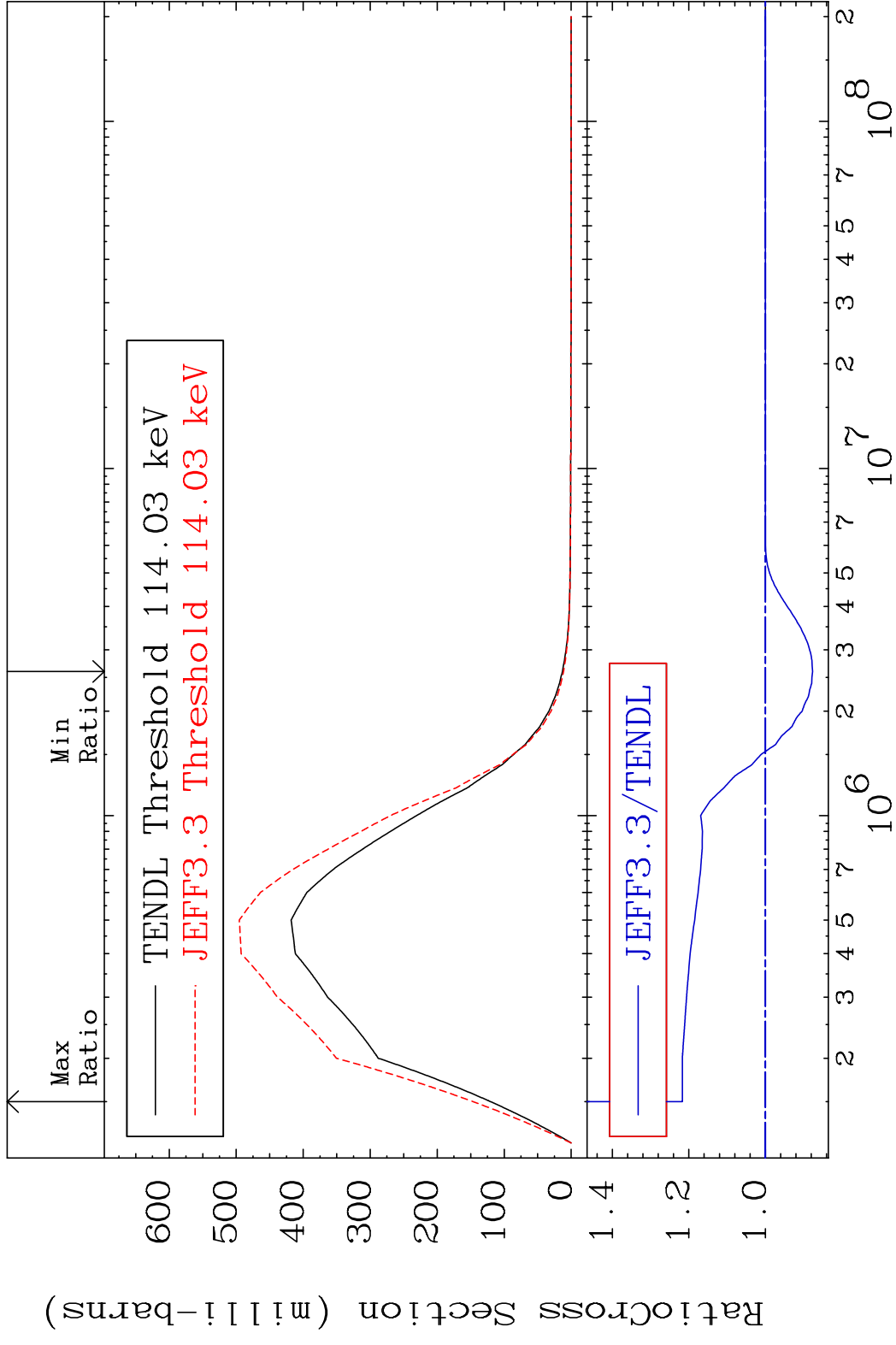


MAT 7428

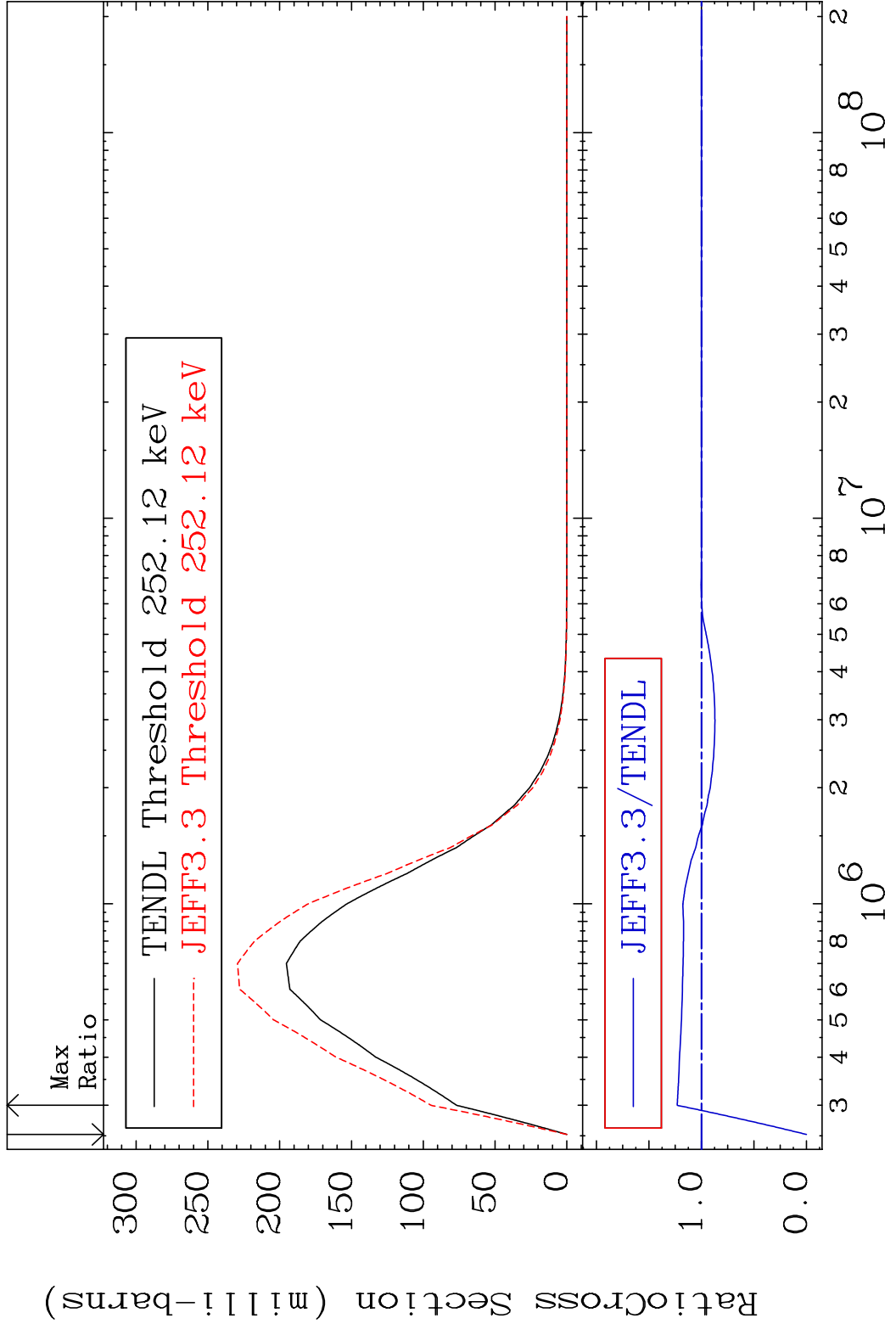
(n,n') p α 74-W -181
Cross Section -100.0 To 9999. %



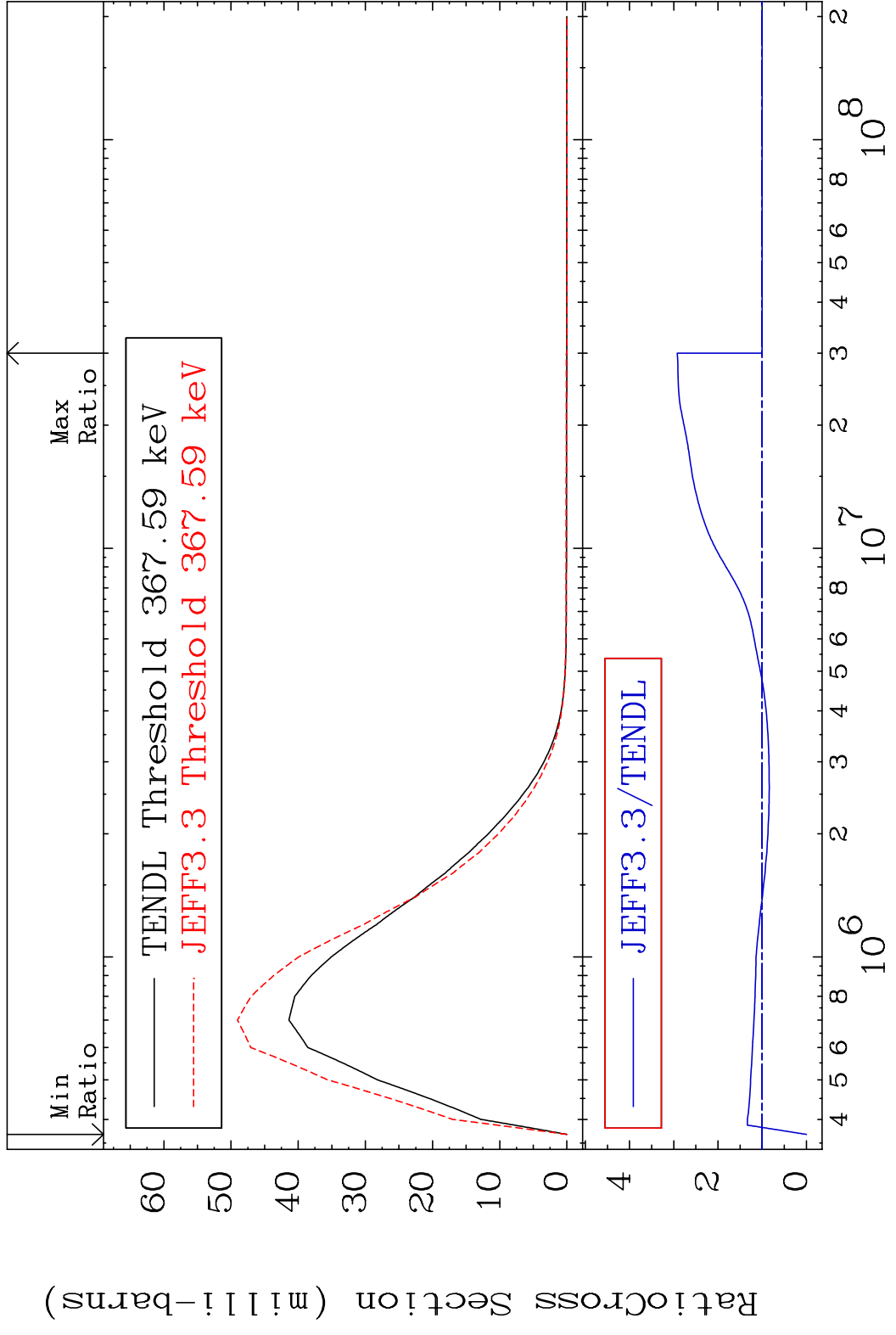
MAT 7428 MT= 51 (n, n') Level 74-W -181
 Cross Section -12.33 To 21.70 %



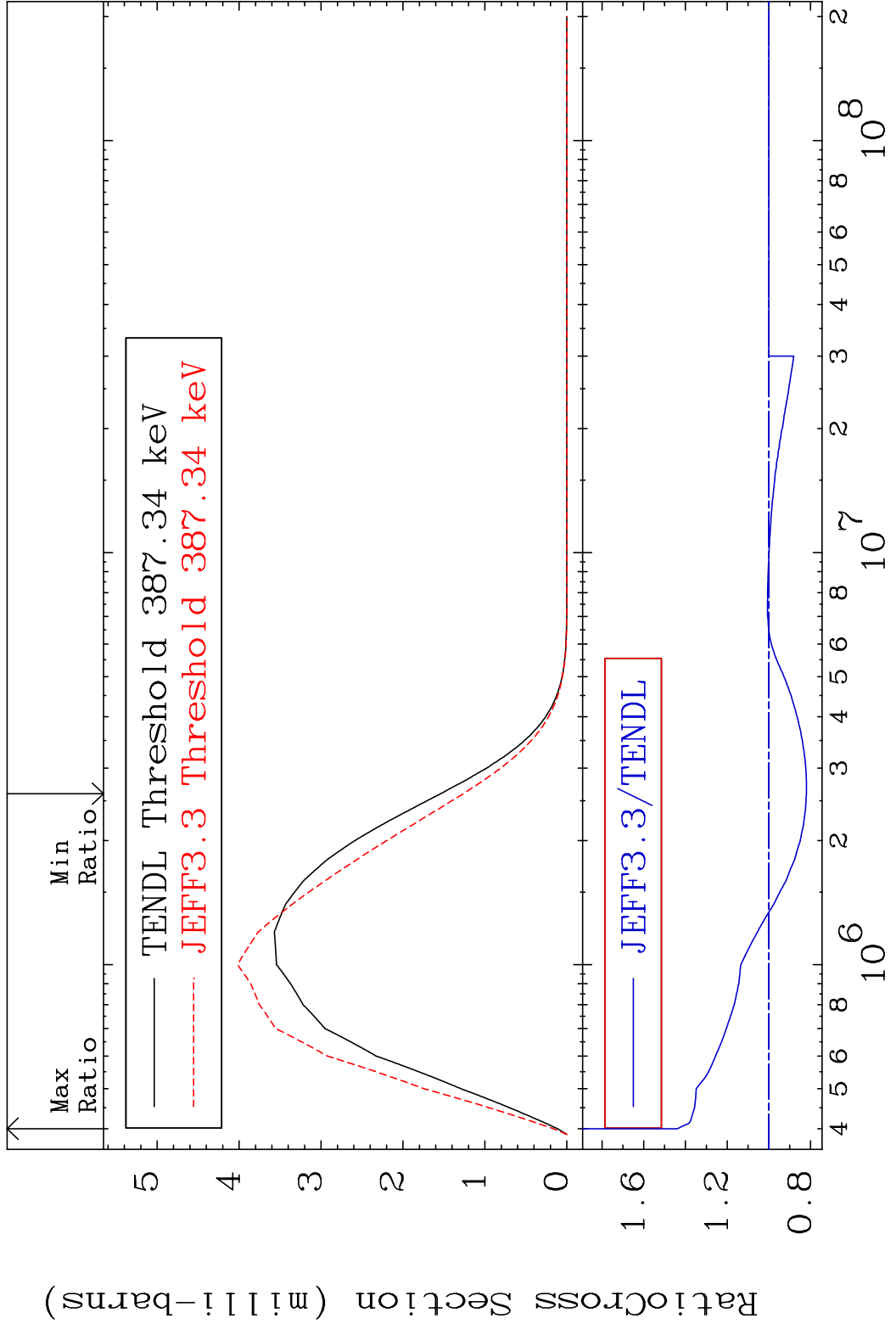
MAT 7428 MT= 52 (n, n') Level 74-W -181
 Cross Section -100.0 To 23.09 %



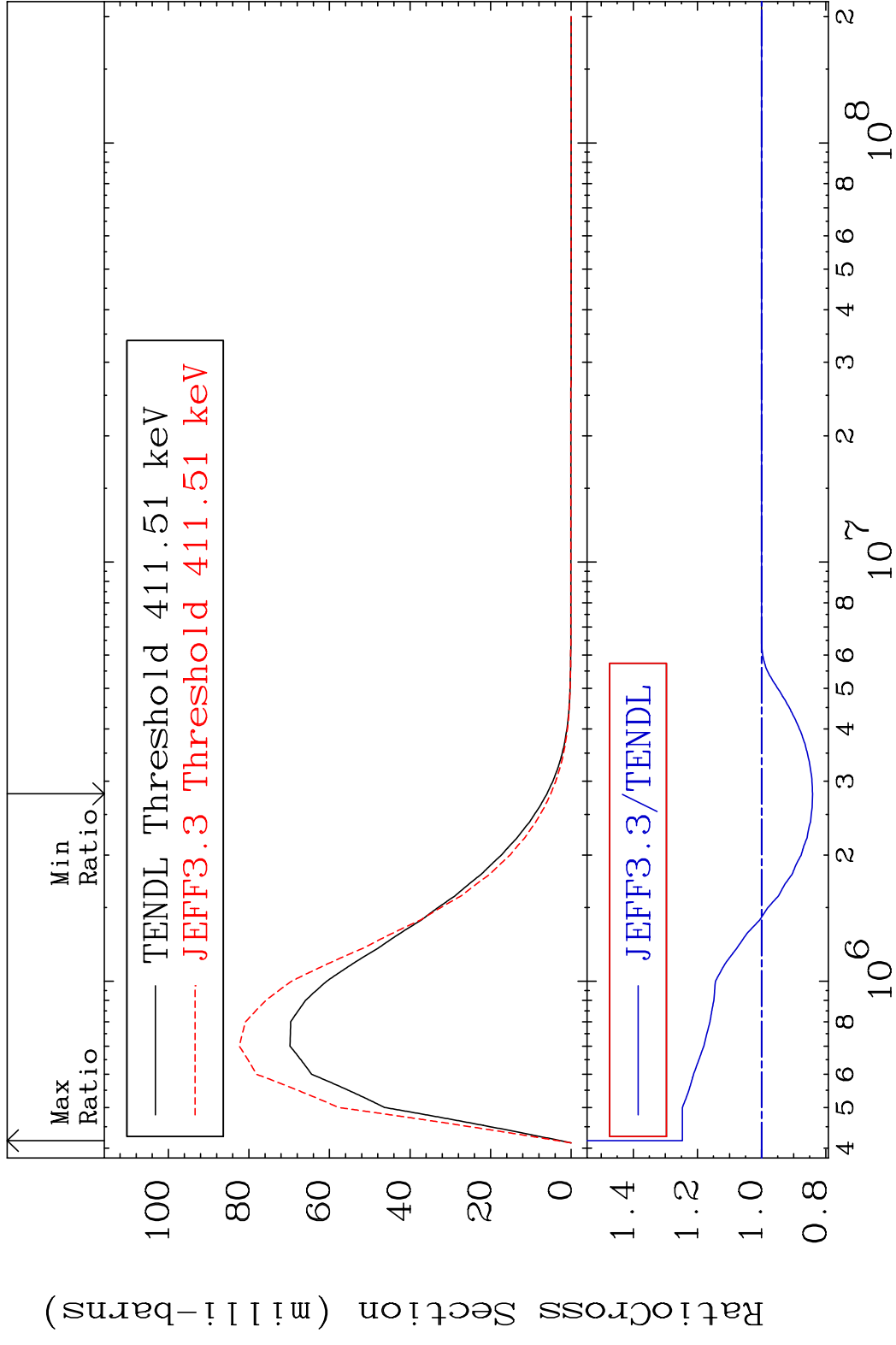
MAT 7428 MT= 53 (n,n') Level 74-W -181
 Cross Section -100.0 To 192.2 %



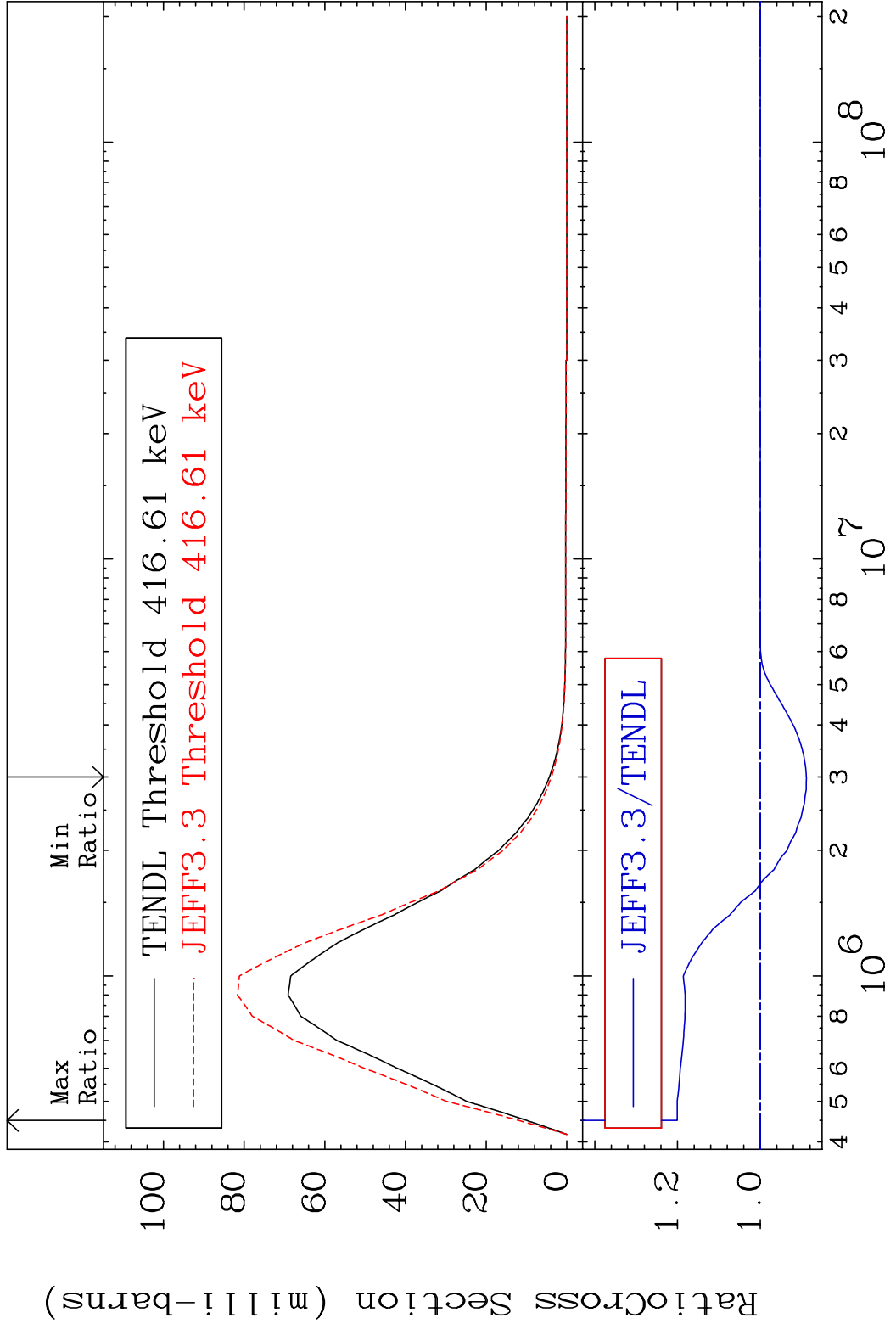
MAT 7428 MT= 54 (n,n') Level 74-W -181
 Cross Section -17.99 To 43.96 %



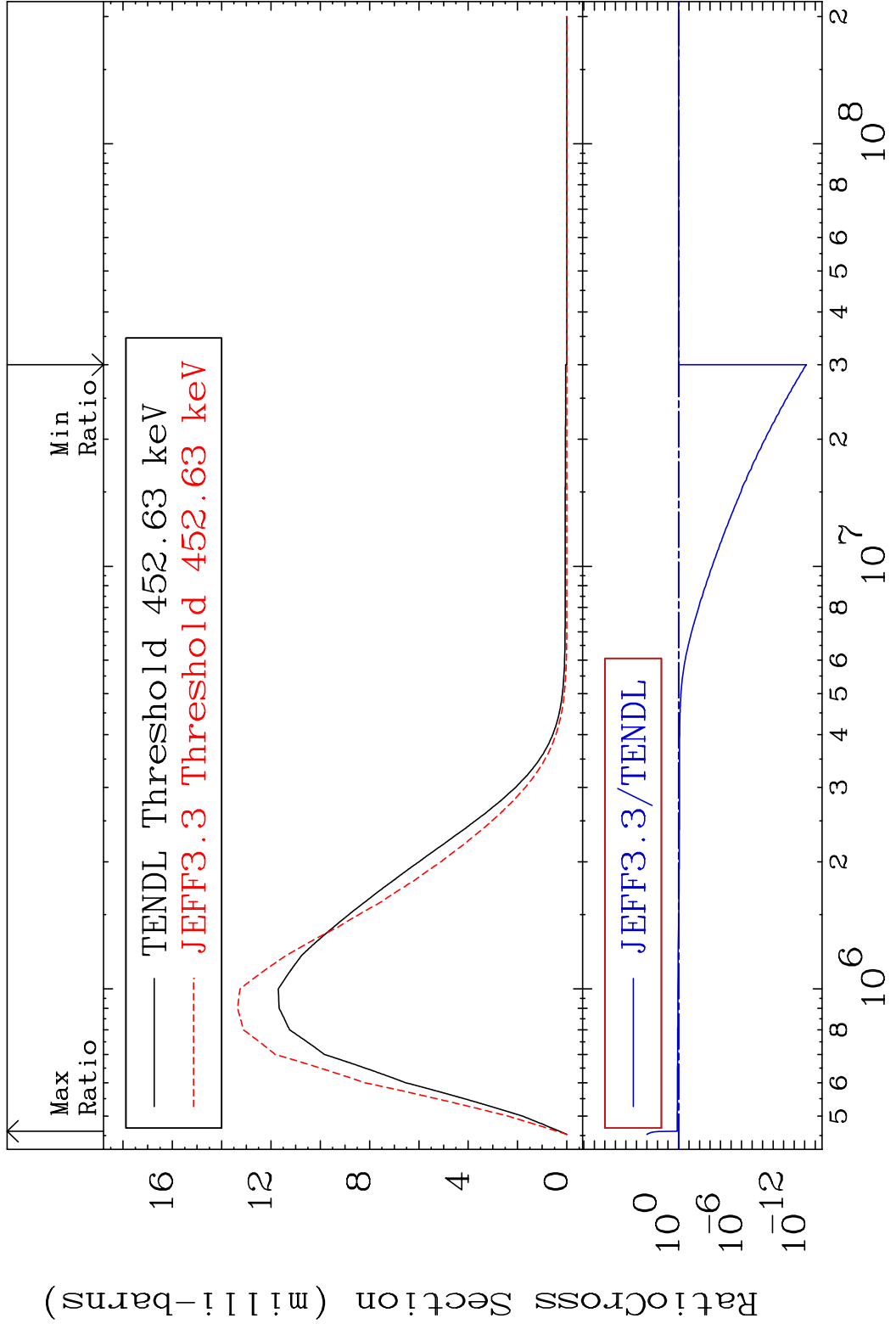
MAT 7428 MT= 55 (n,n') Level 74-W -181
 Cross Section -15.88 To 24.71 %



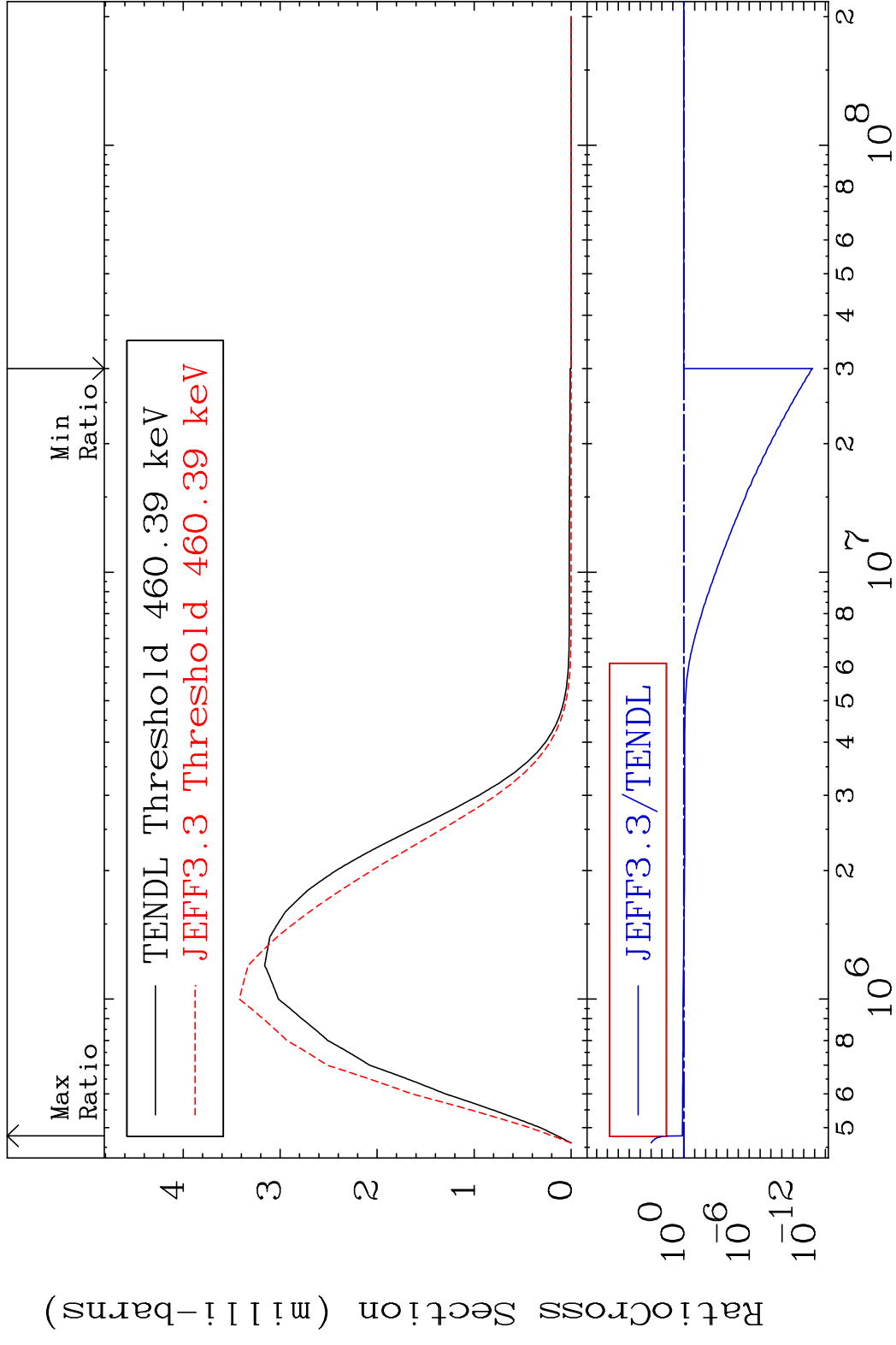
MAT 7428 MT= 56 (n,n') Level 74-W -181
 Cross Section -11.14 To 20.09 %



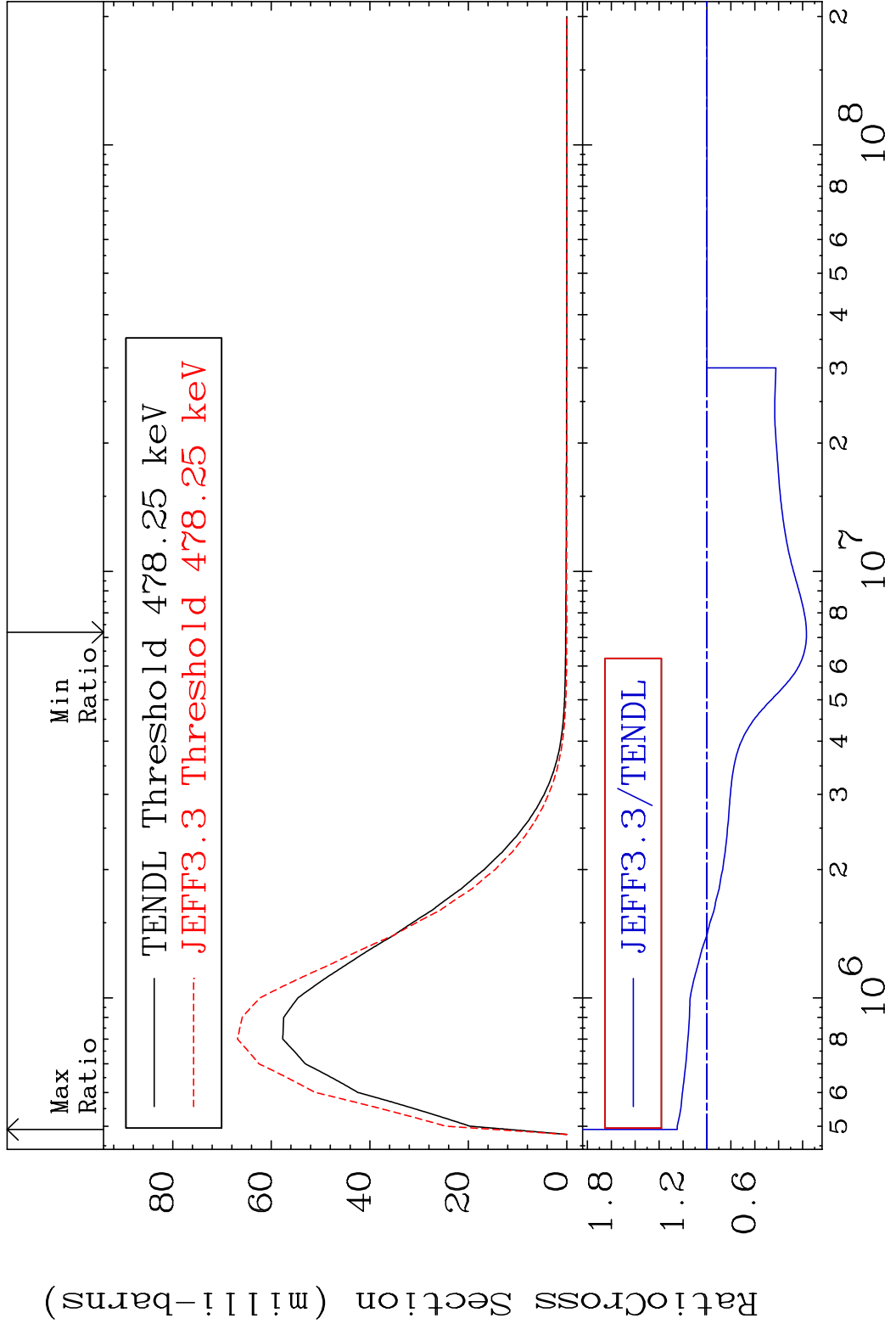
MAT 7428 MT= 57 (n, n') Level 74-W -181
 Cross Section -100.0 To 32.75 %



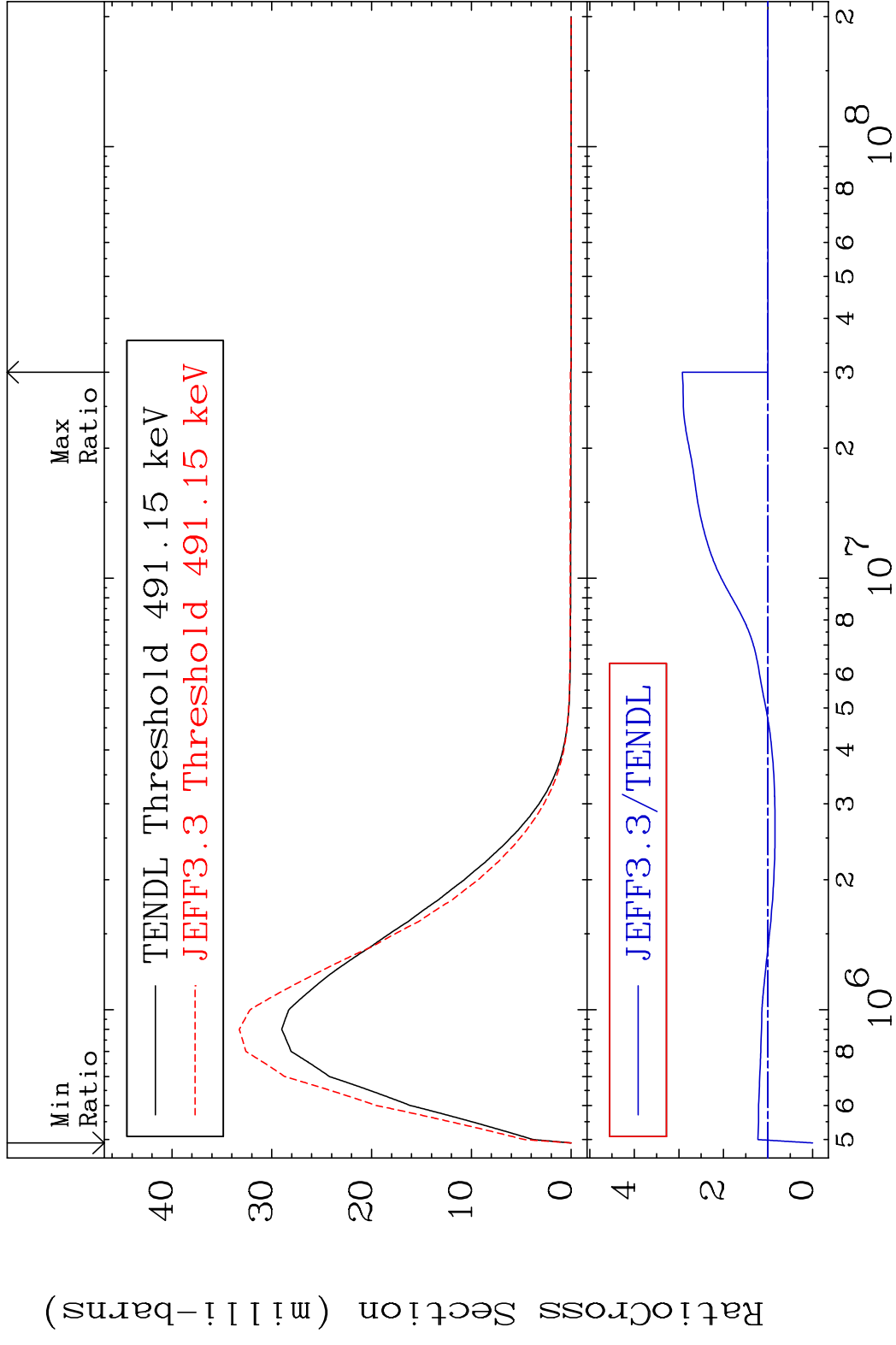
MAT 7428 MT= 58 (n, n') Level 74-W -181
 Cross Section -100.0 To 34.62 %



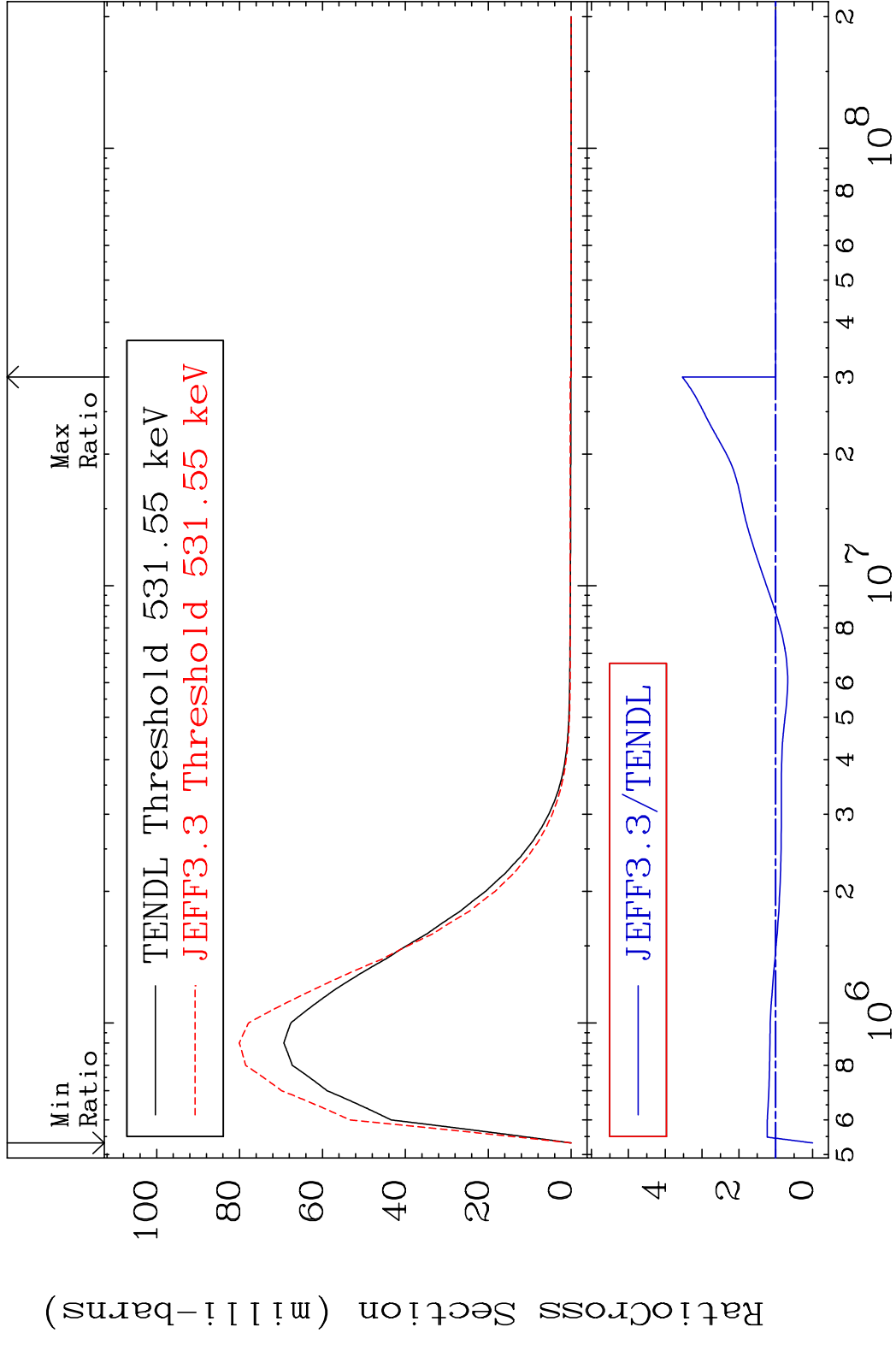
MAT 7428 MT= 59 (n,n') Level 74-W -181
 Cross Section -83.19 To 24.89 %



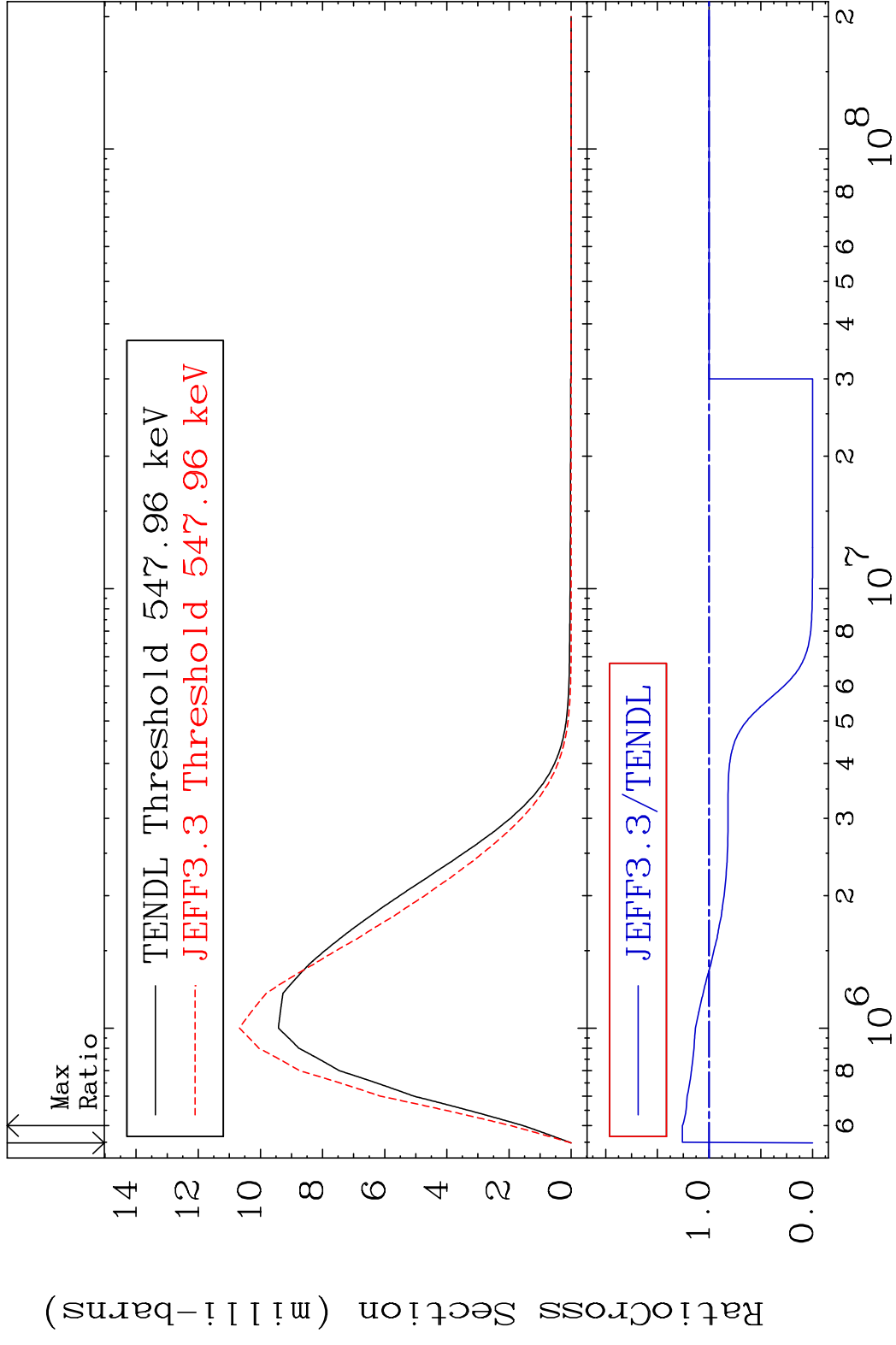
MAT 7428 MT= 60 (n, n') Level 74-W -181
 Cross Section -100.0 To 192.2 %



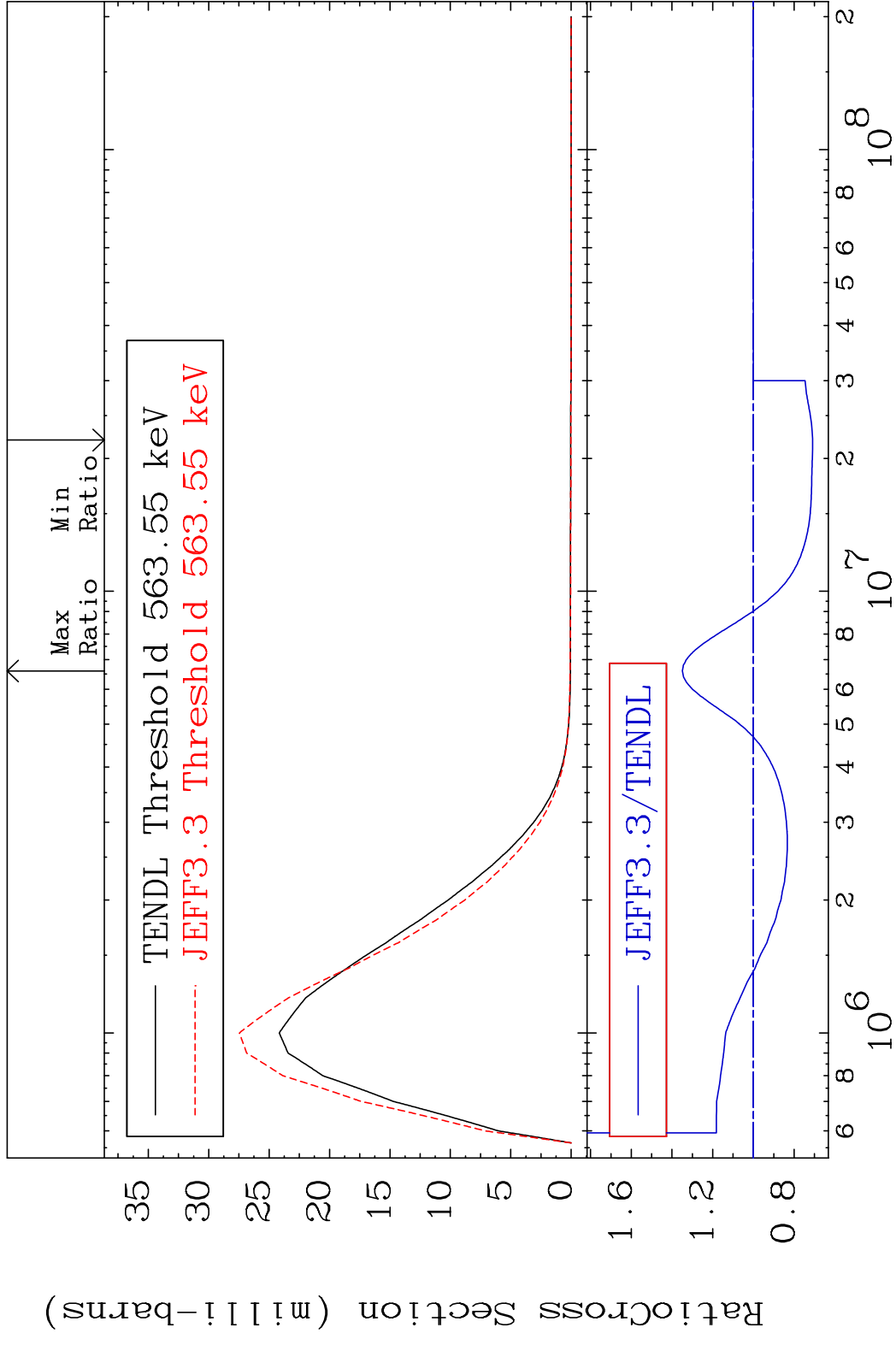
MAT 7428 MT= 61 (n, n') Level 74-W -181
 Cross Section -100.0 To 253.4 %



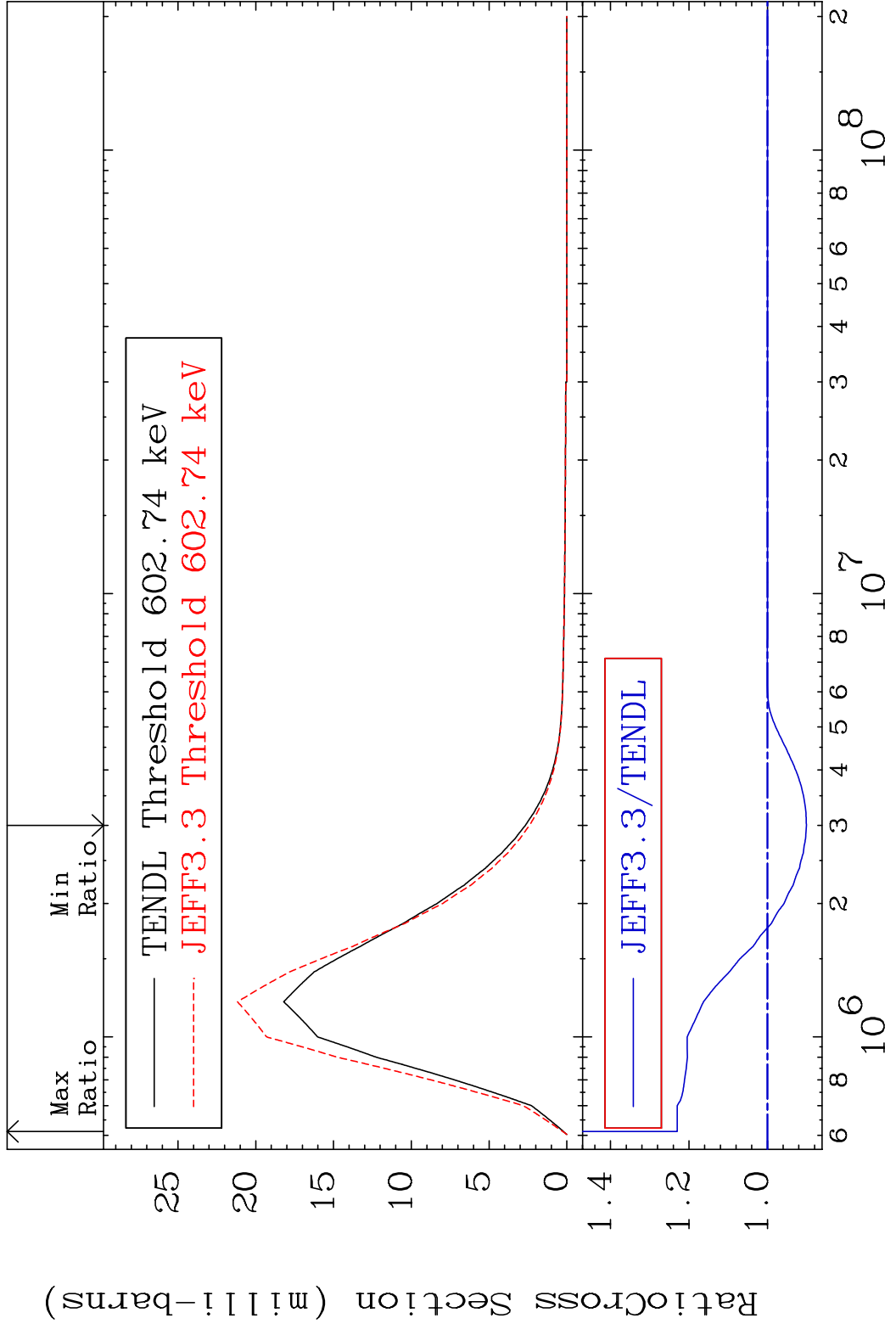
MAT 7428 MT= 62 (n, n') Level 74-W -181
 Cross Section -100.0 To 25.87 %



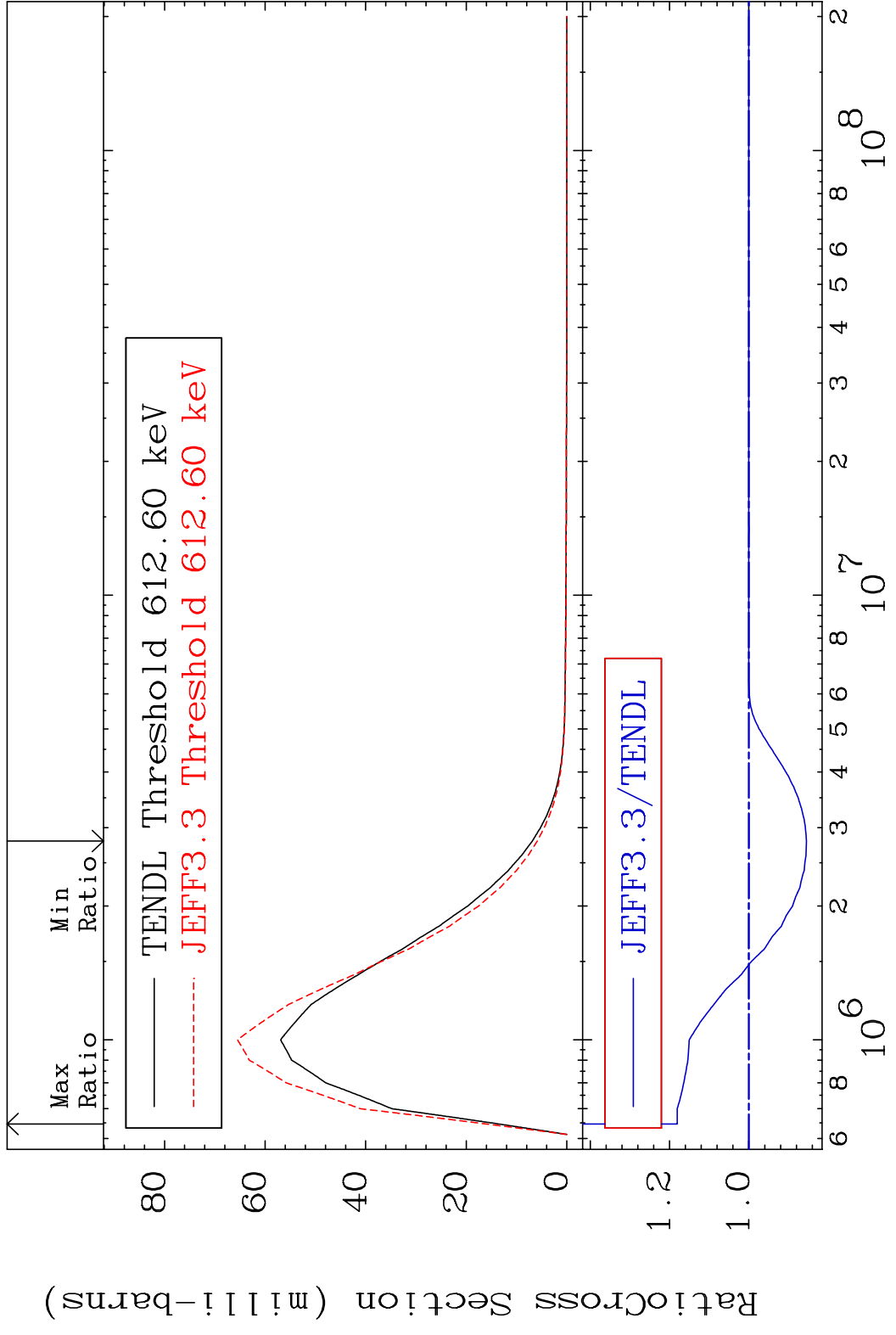
MAT 7428 MT= 63 (n, n') Level 74-W -181
 Cross Section -29.06 To 34.90 %



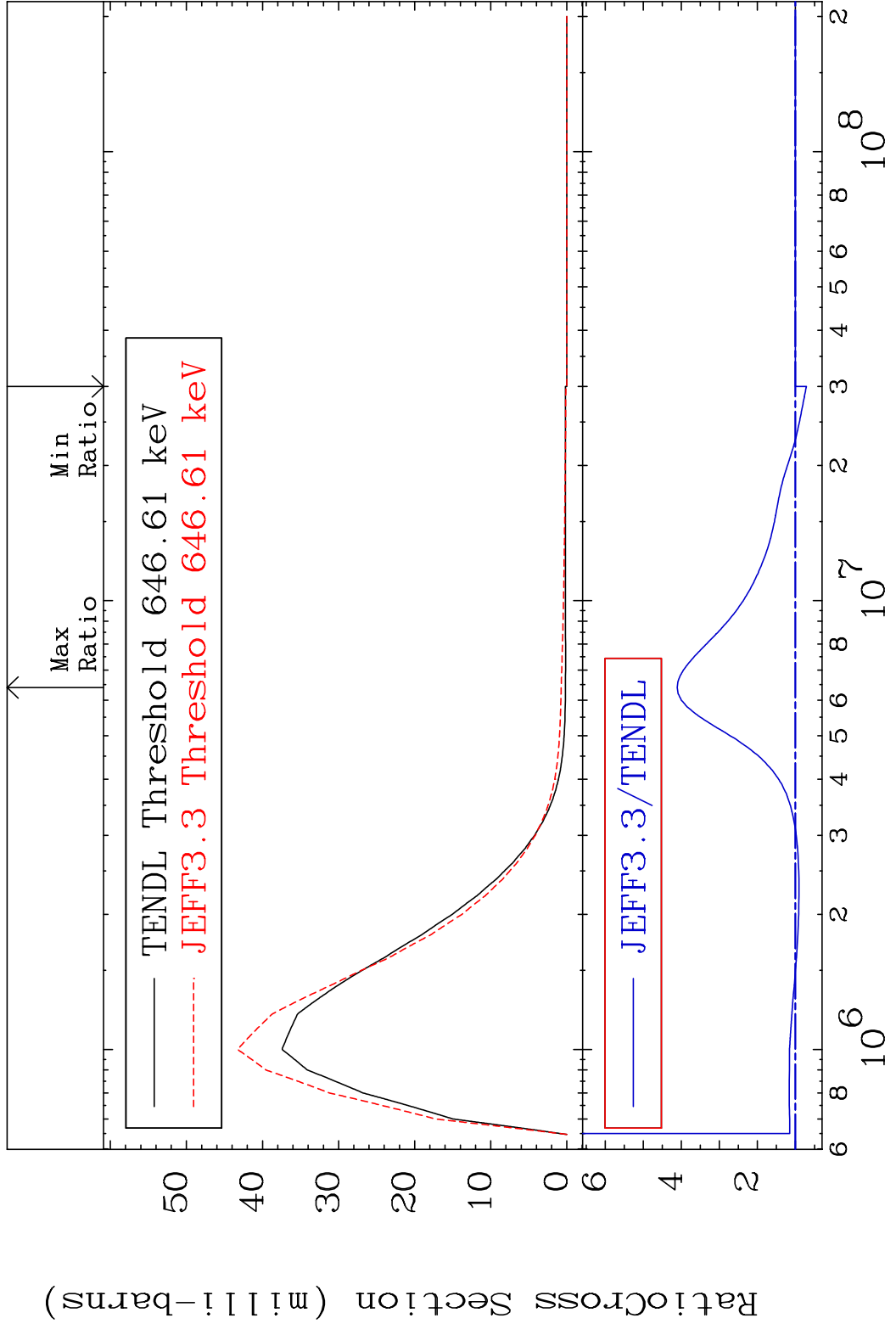
MAT 7428 MT= 64 (n,n') Level 74-W -181
 Cross Section -9.934 To 23.01 %



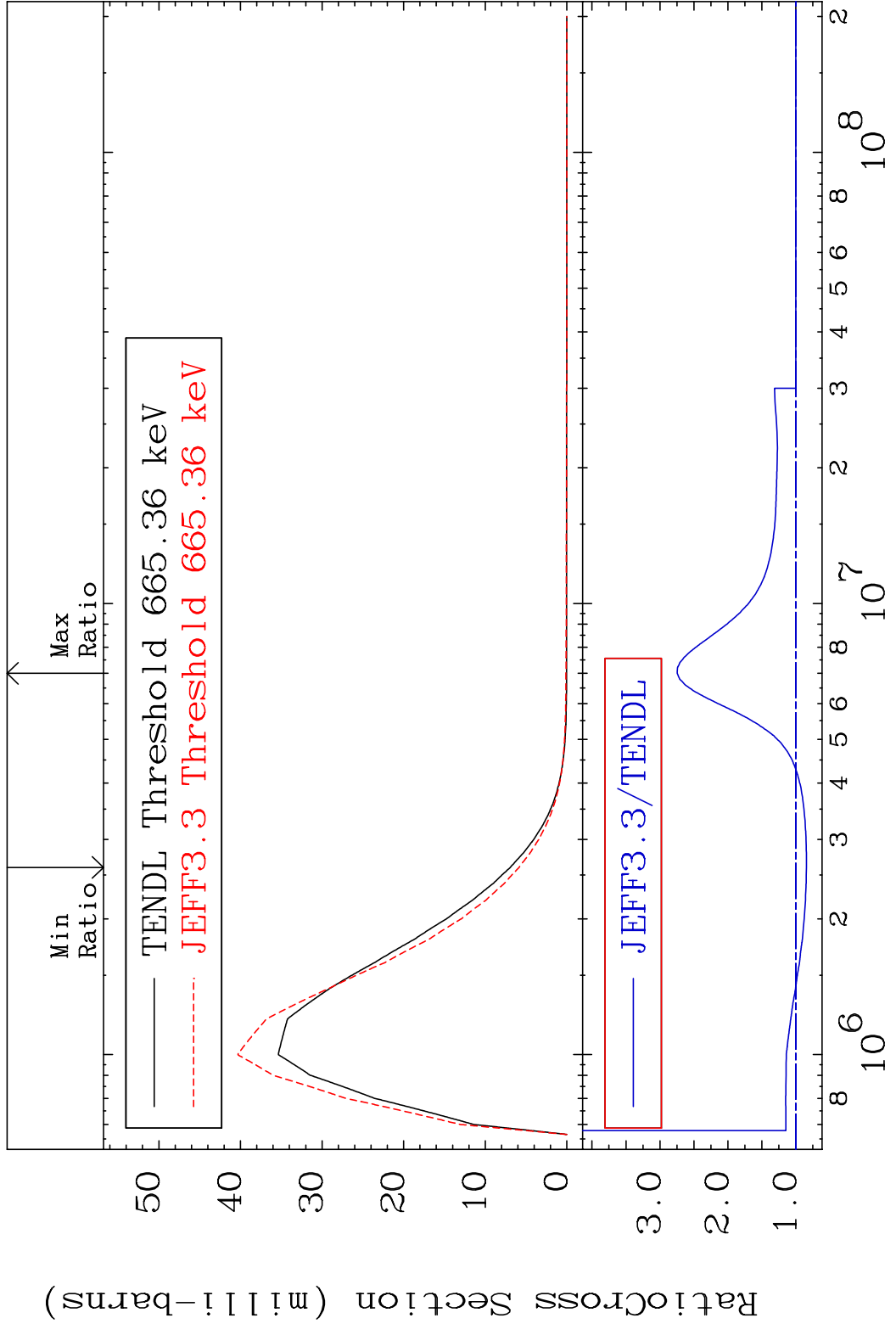
MAT 7428 MT= 65 (n,n') Level 74-W -181
 Cross Section -14.53 To 18.09 %



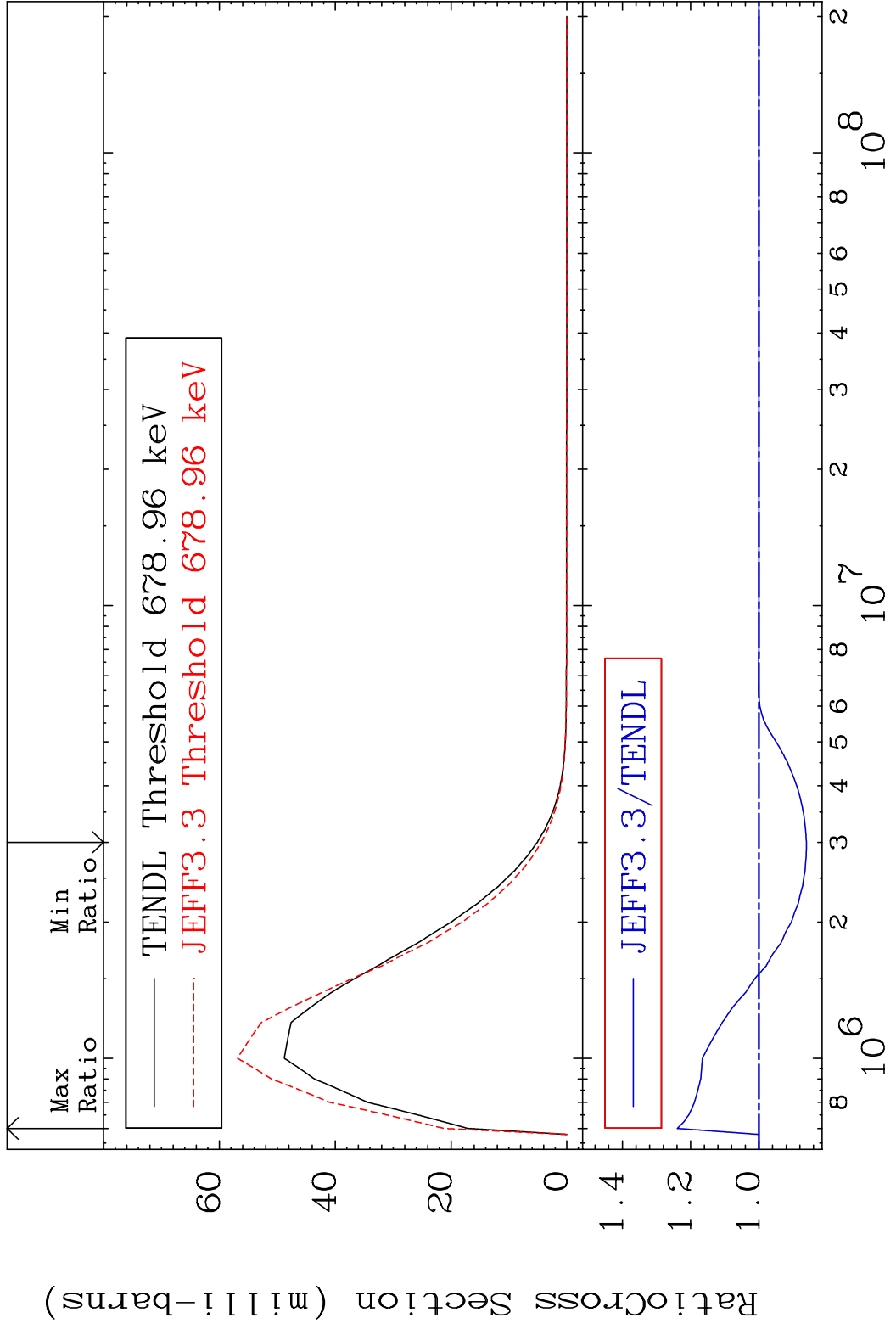
MAT 7428 MT= 66 (n, n') Level 74-W -181
 Cross Section -28.74 To 310.8 %



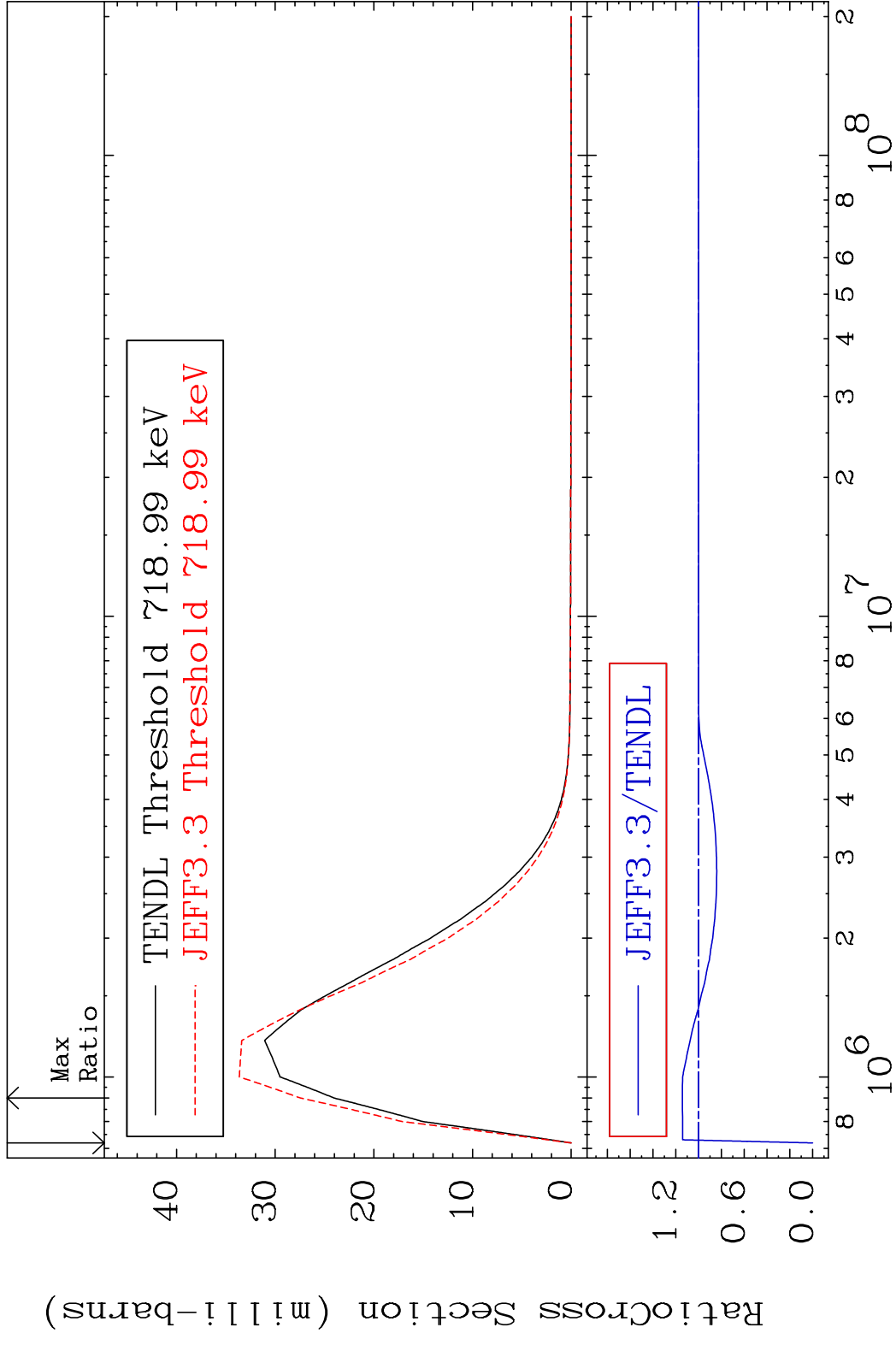
MAT 7428 MT= 67 (n, n') Level 74-W -181
 Cross Section -15.49 To 174.6 %



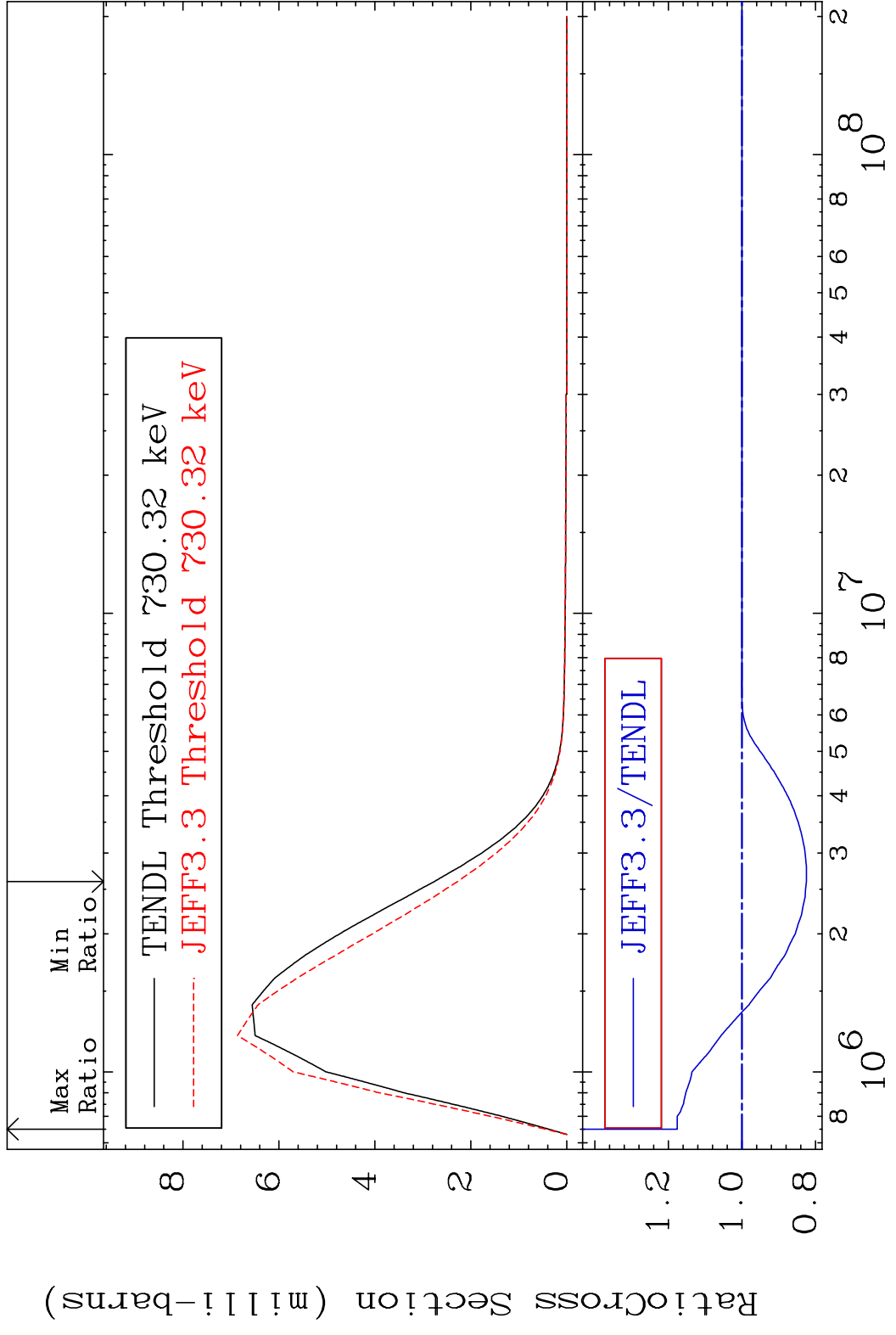
MAT 7428 MT= 68 (n,n') Level 74-W -181
 Cross Section -13.92 To 23.94 %



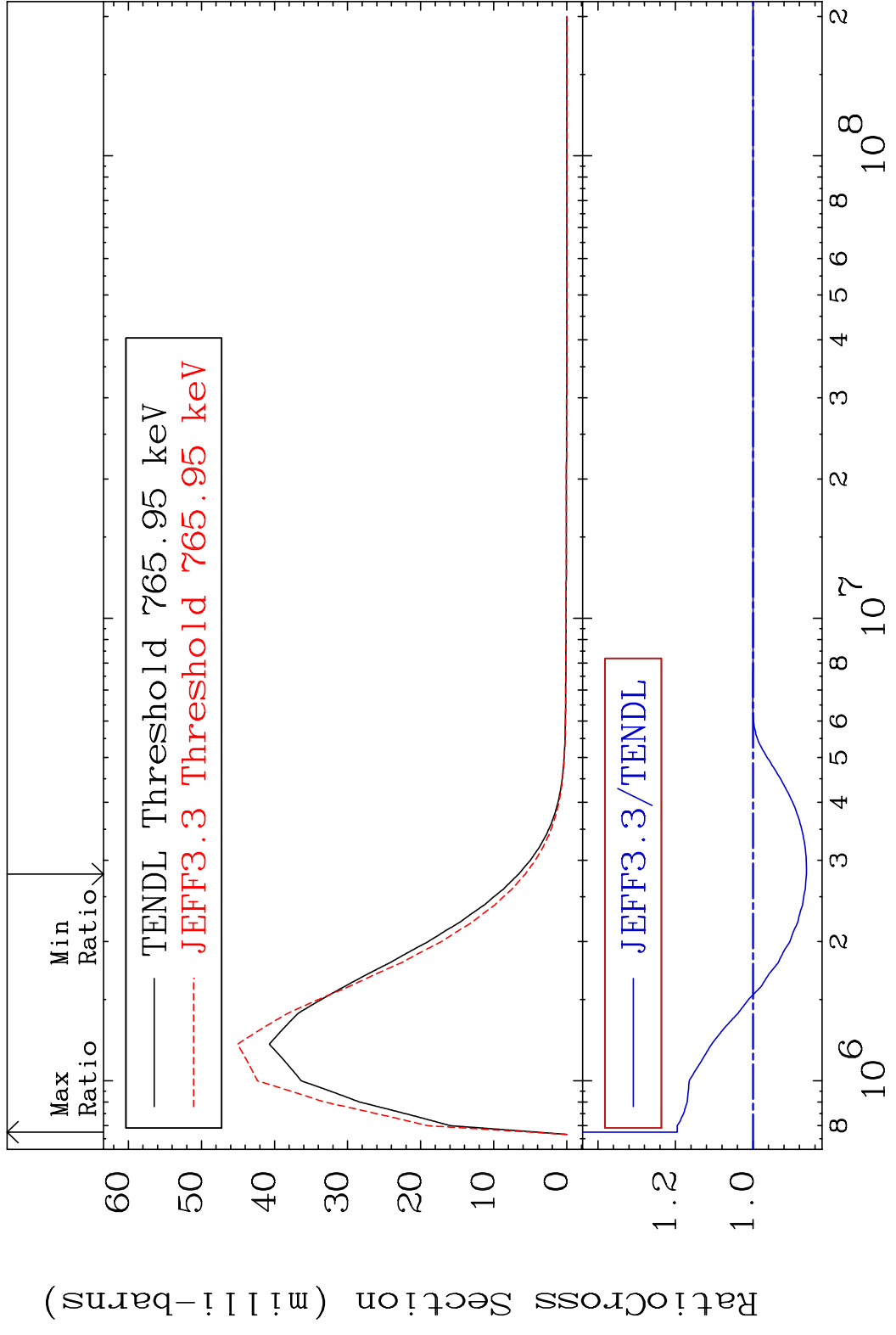
MAT 7428 MT= 69 (n, n') Level 74-W -181
 Cross Section -100.0 To 14.18 %



MAT 7428 MT= 70 (n,n') Level 74-W -181
 Cross Section -17.52 To 17.62 %

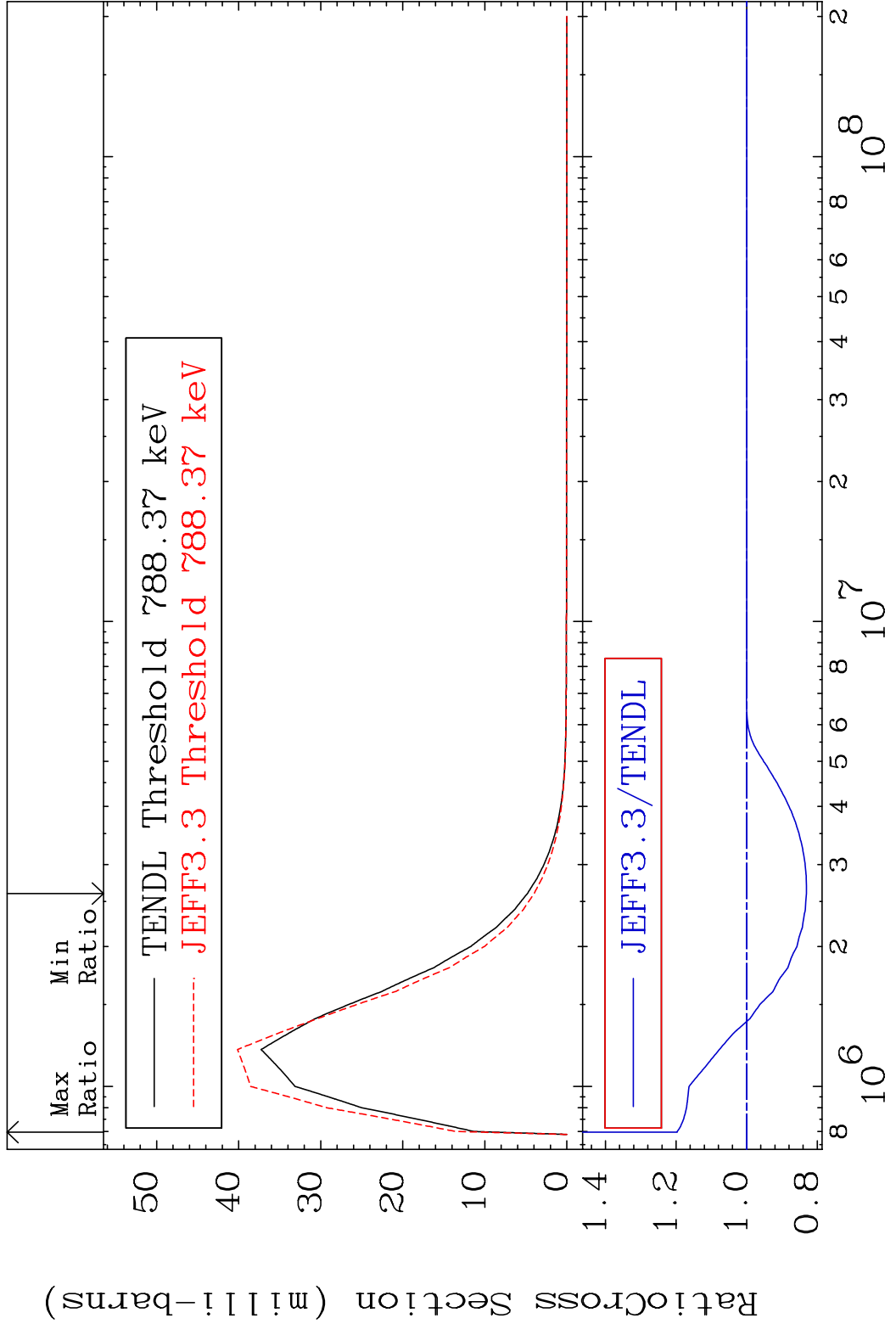


MAT 7428 MT= 71 (n,n') Level 74-W -181
 Cross Section -13.79 To 19.56 %

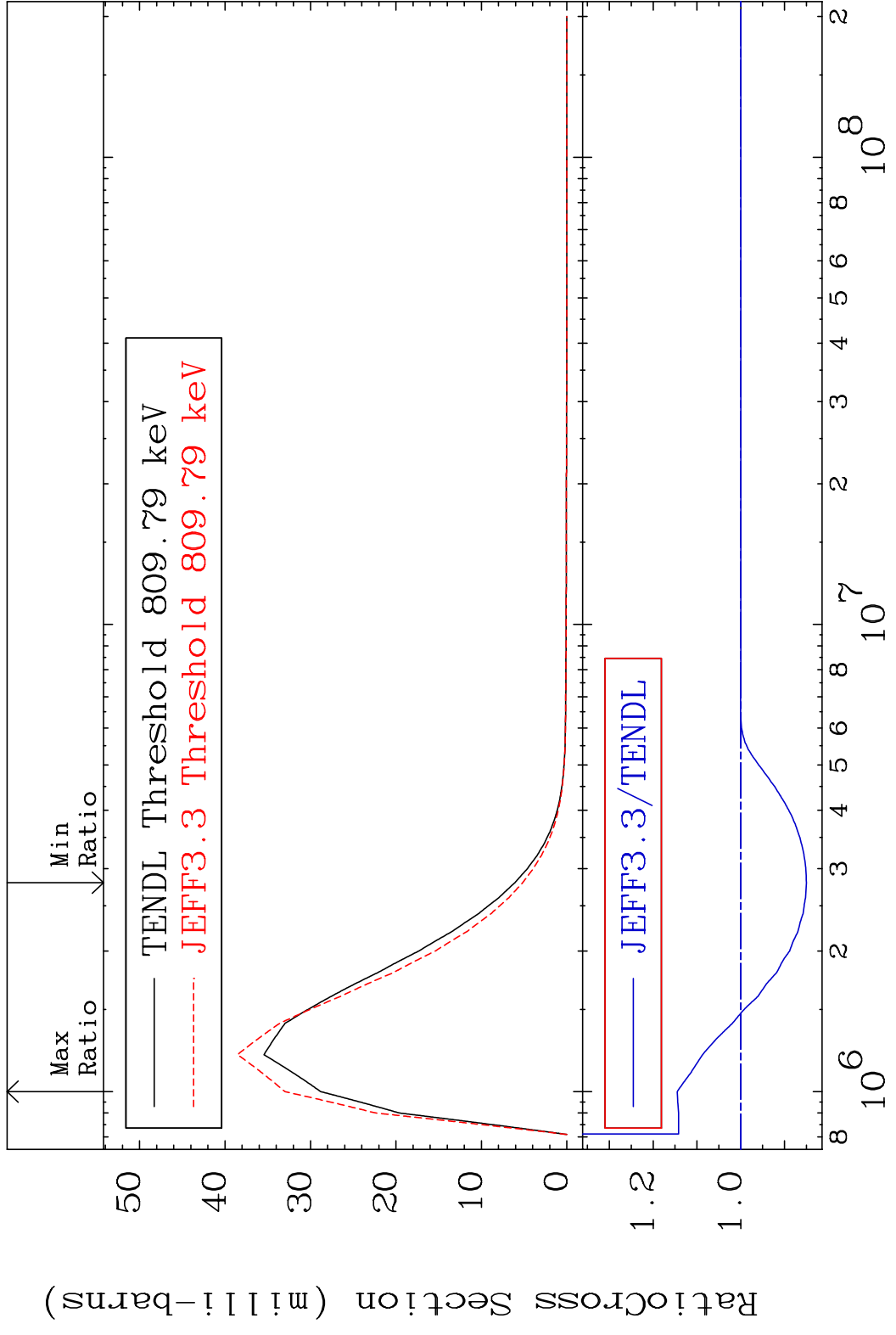


40 Incident Energy (eV) 74-W -181

MAT 7428 MT= 72 (n,n') Level 74-W -181
 Cross Section -16.92 To 19.68 %

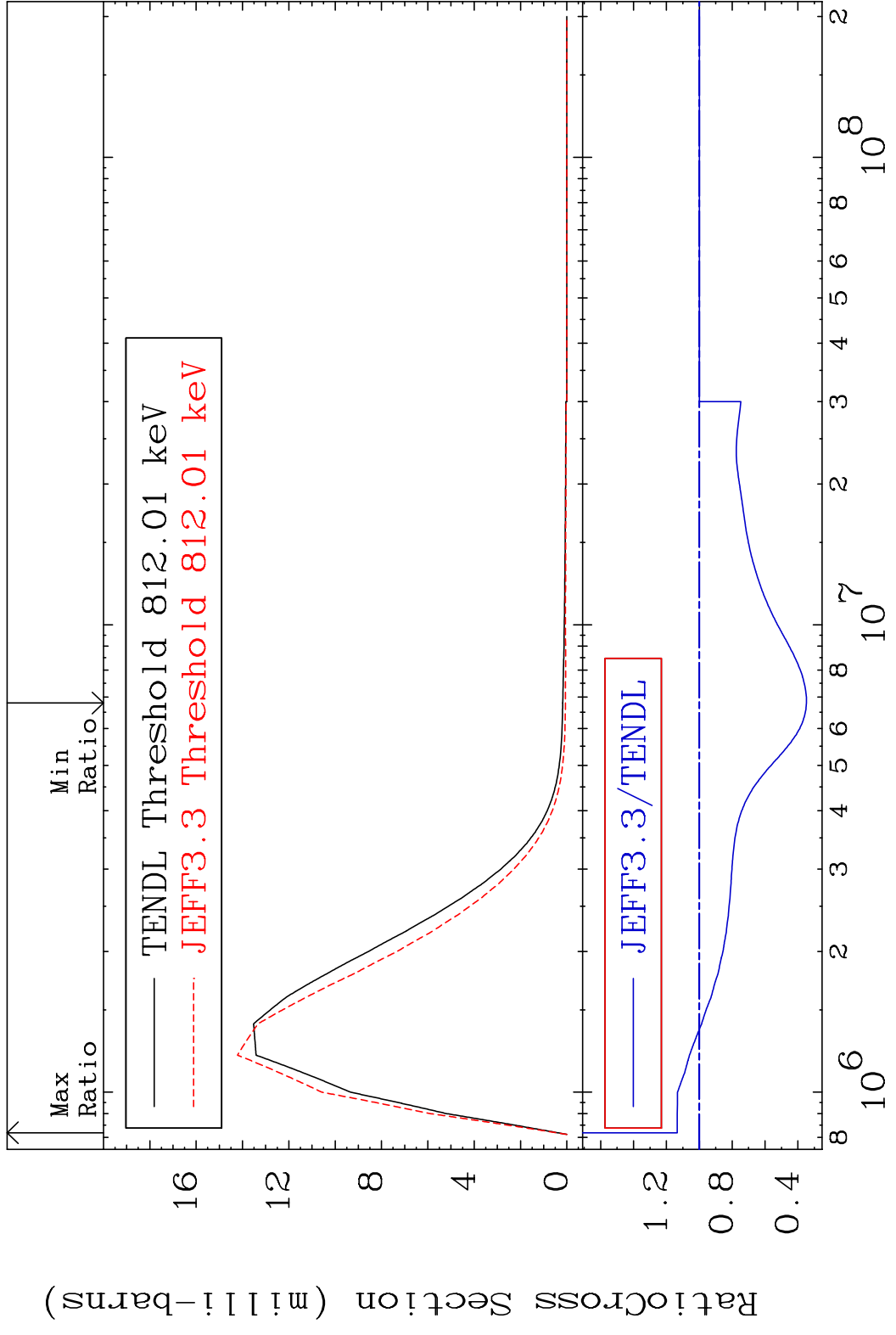


MAT 7428 MT= 73 (n, n') Level 74-W -181
 Cross Section -14.99 To 14.51 %



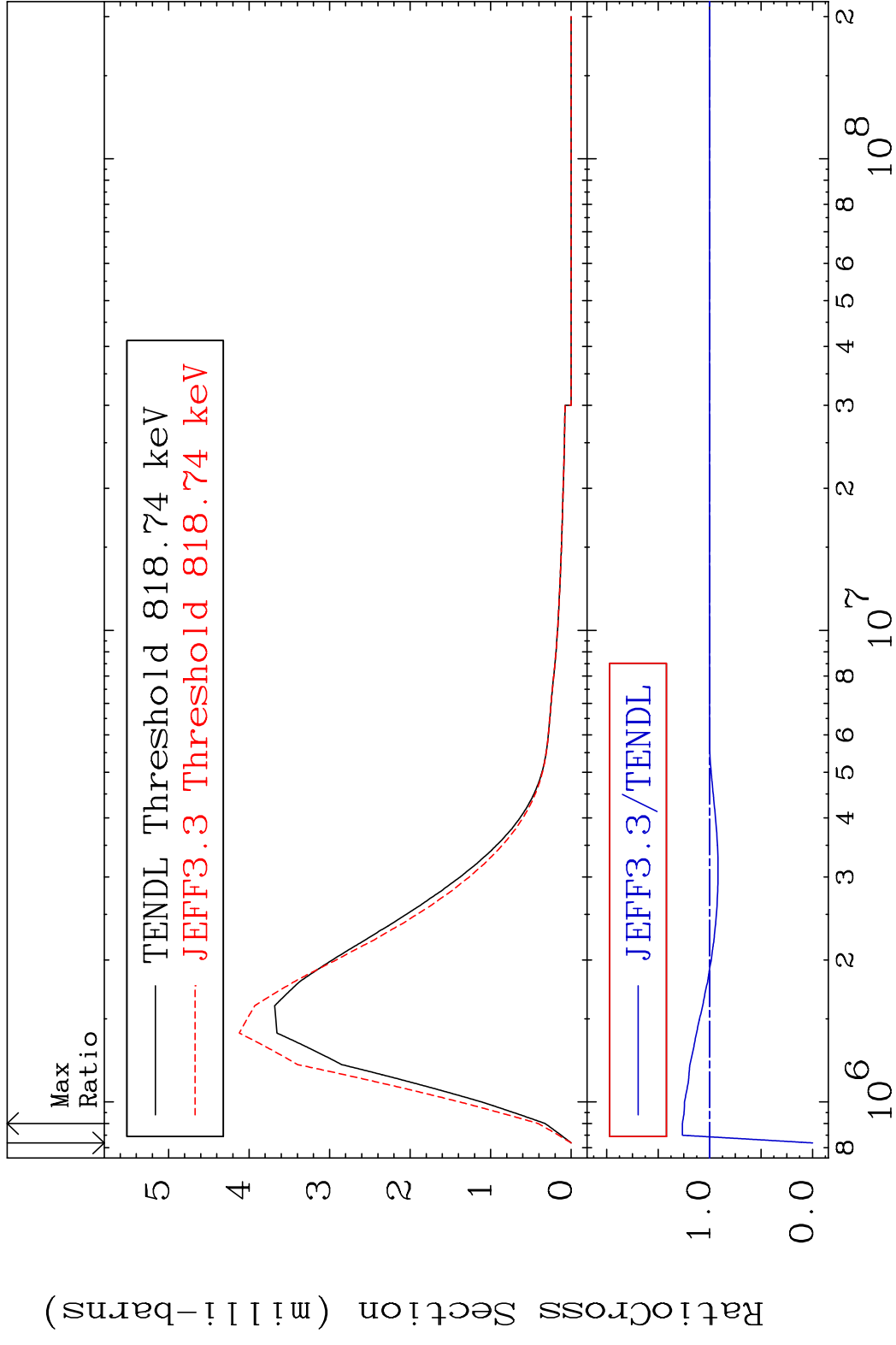
42 Incident Energy (eV) 74-W -181

MAT 7428 MT= 74 (n,n') Level 74-W -181
 Cross Section -65.15 To 13.45 %



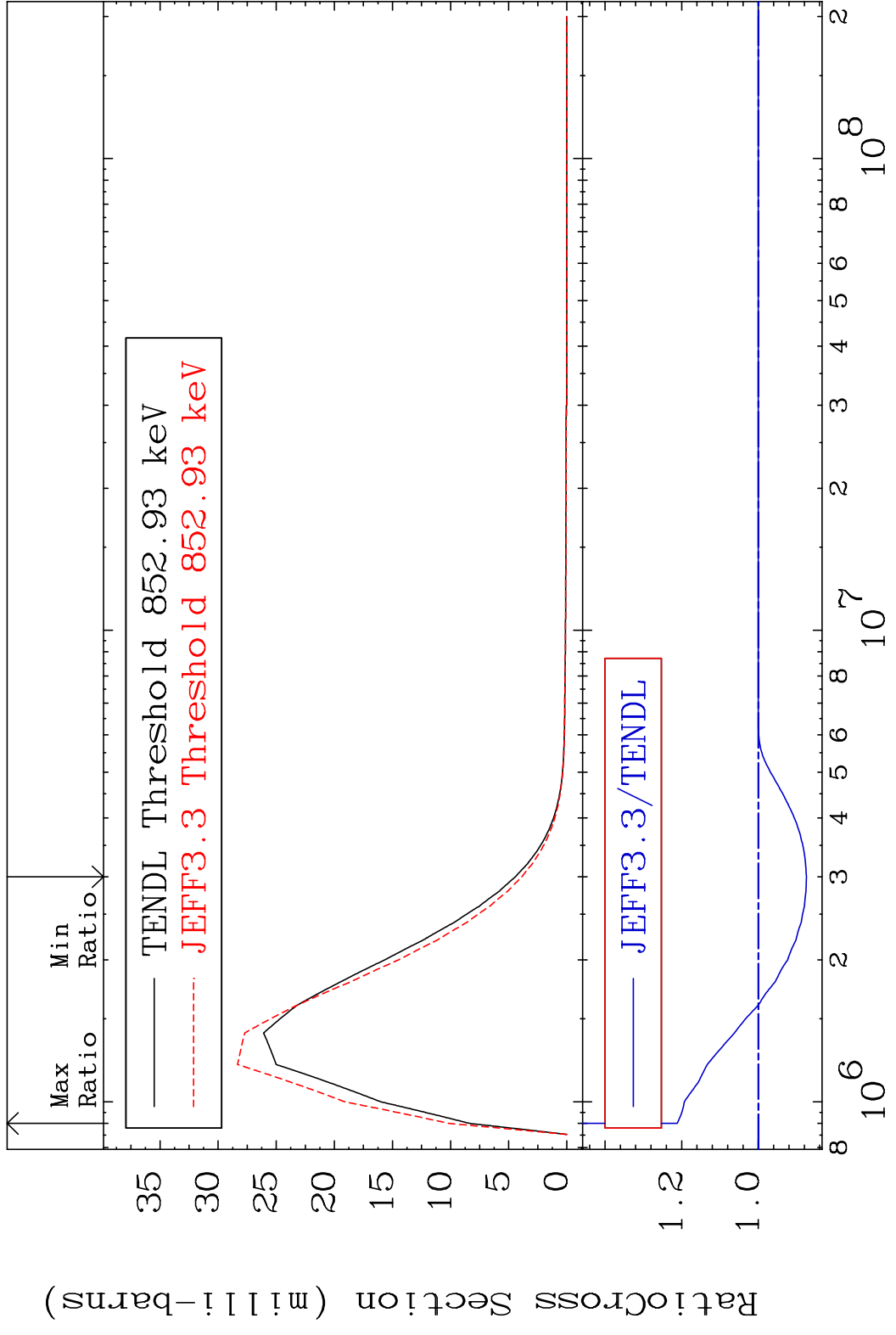
43 Incident Energy (eV) 74-W -181

MAT 7428 MT= 75 (n,n') Level 74-W -181
 Cross Section -100.0 To 26.46 %



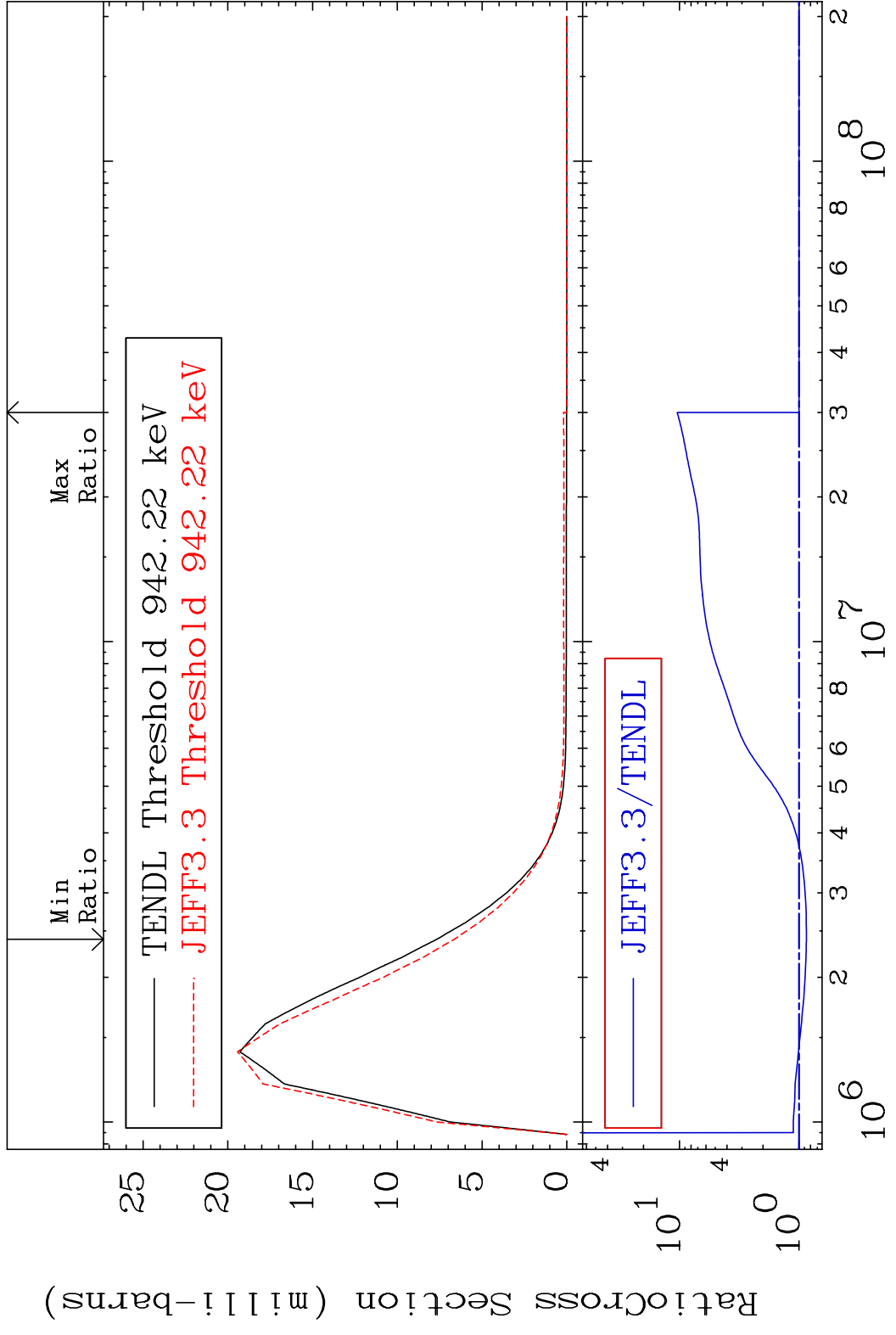
44 Incident Energy (eV) 74-W -181

MAT 7428 MT= 76 (n,n') Level 74-W -181
 Cross Section -12.54 To 21.16 %



45 Incident Energy (eV) 74-W -181

MAT 7428 MT= 77 (n, n') Level 74-W -181
 Cross Section -13.49 To 943.2 %



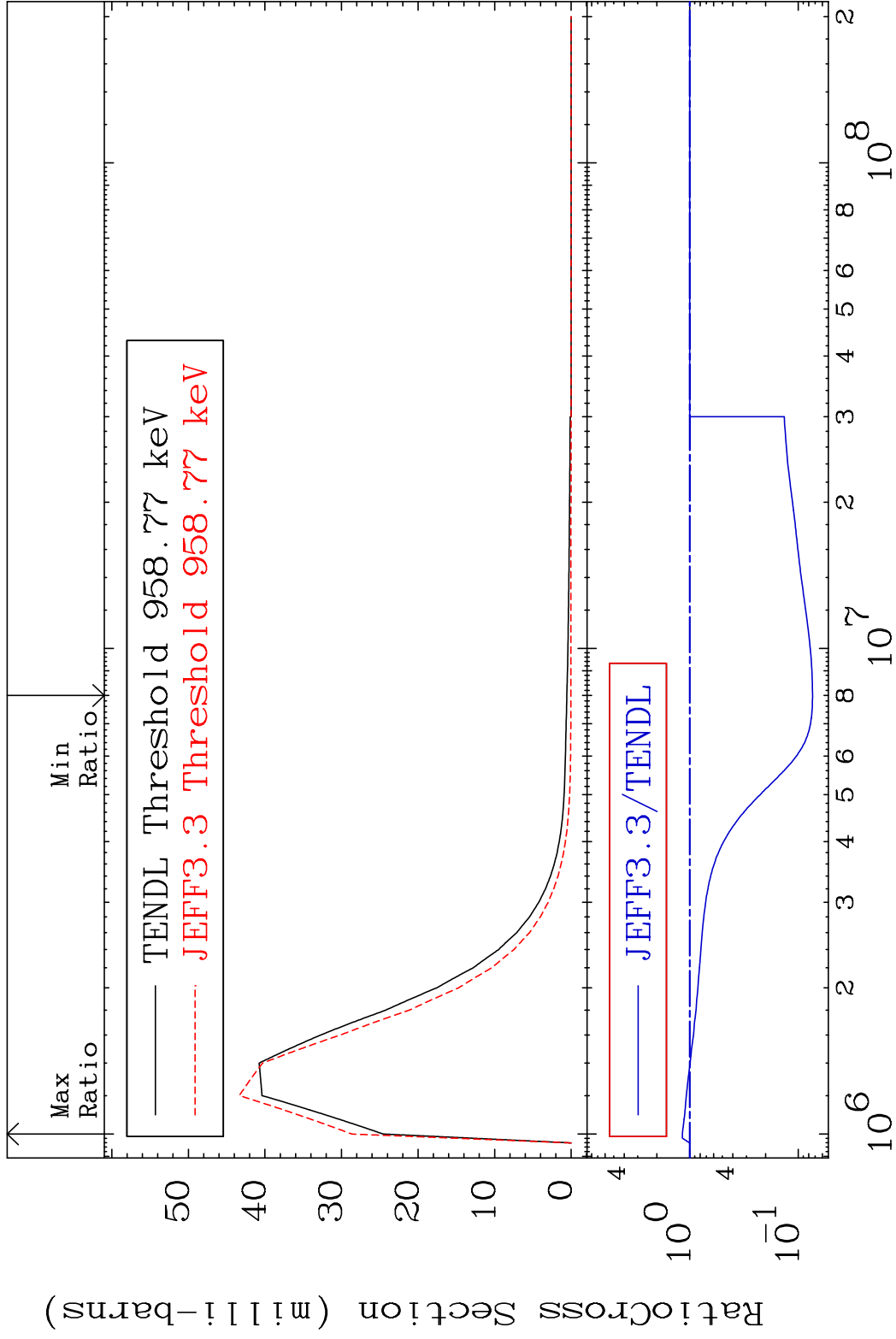
46 Incident Energy (eV) 74-W -181

MAT 7428

MT= 78 (n, n') Level

74-W -181

Cross Section -92.62 To 16.66 %

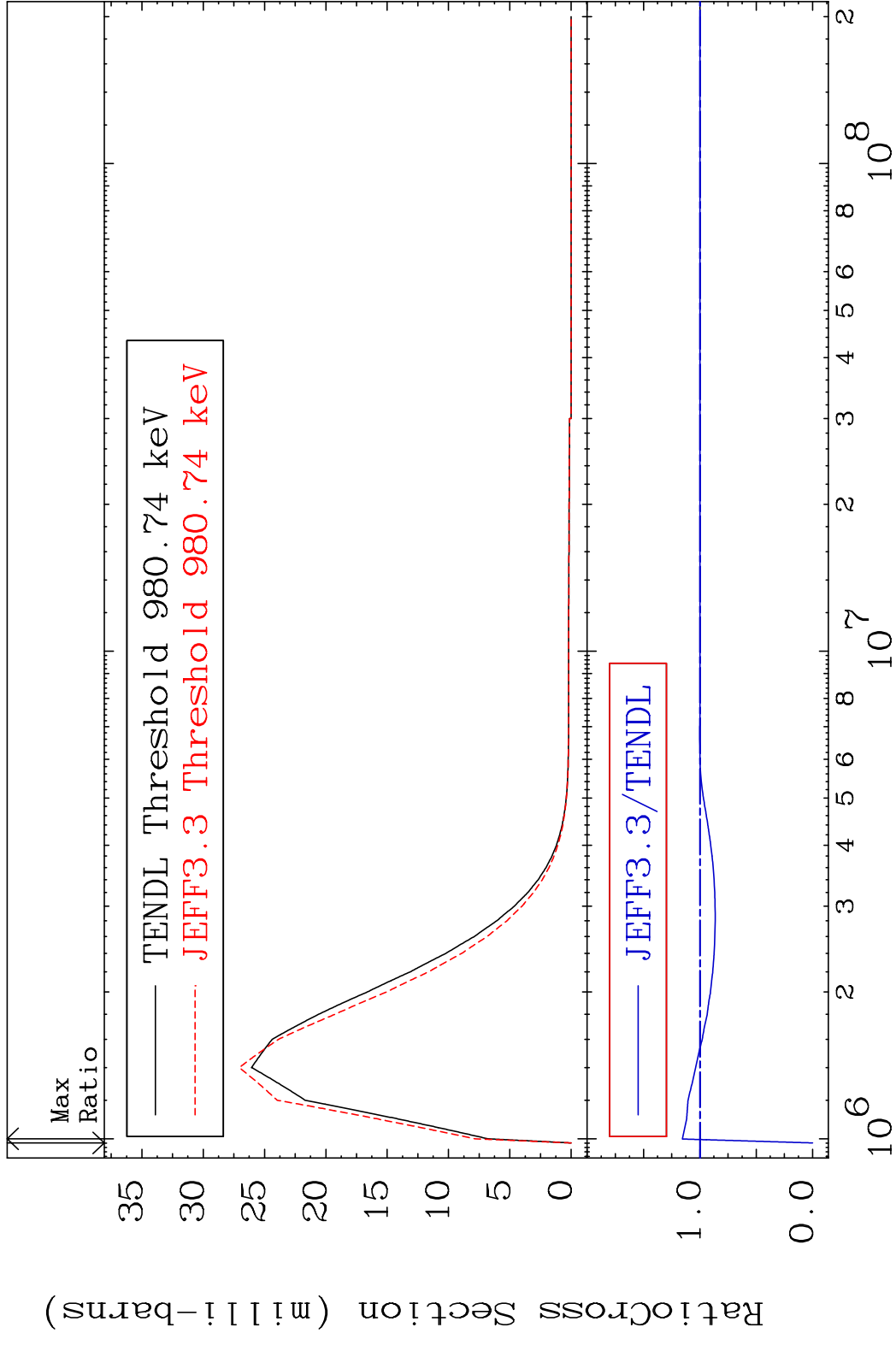


47

Incident Energy (eV)

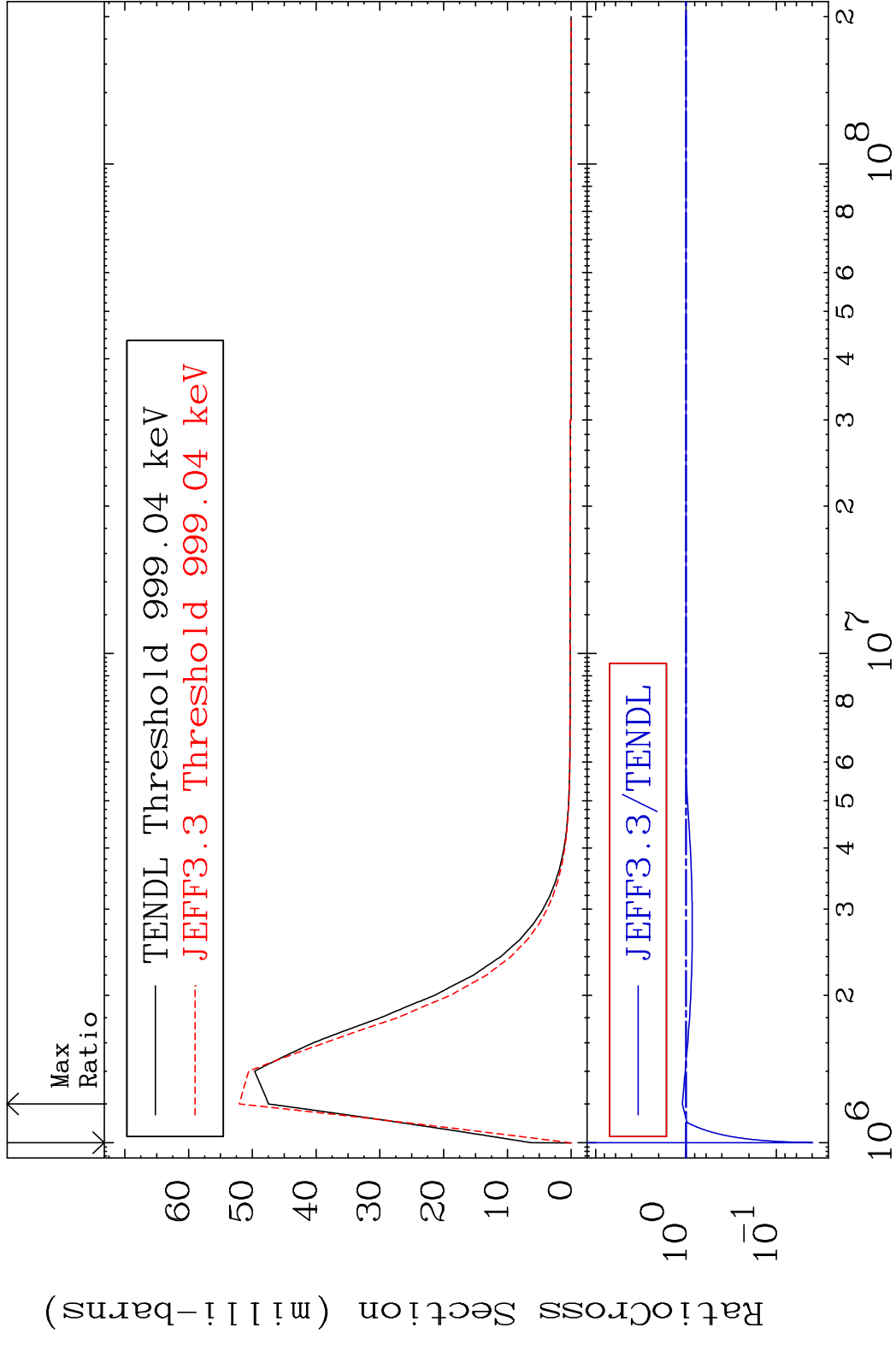
74-W -181

MAT 7428 MT= 79 (n, n') Level 74-W -181
 Cross Section -100.0 To 15.54 %



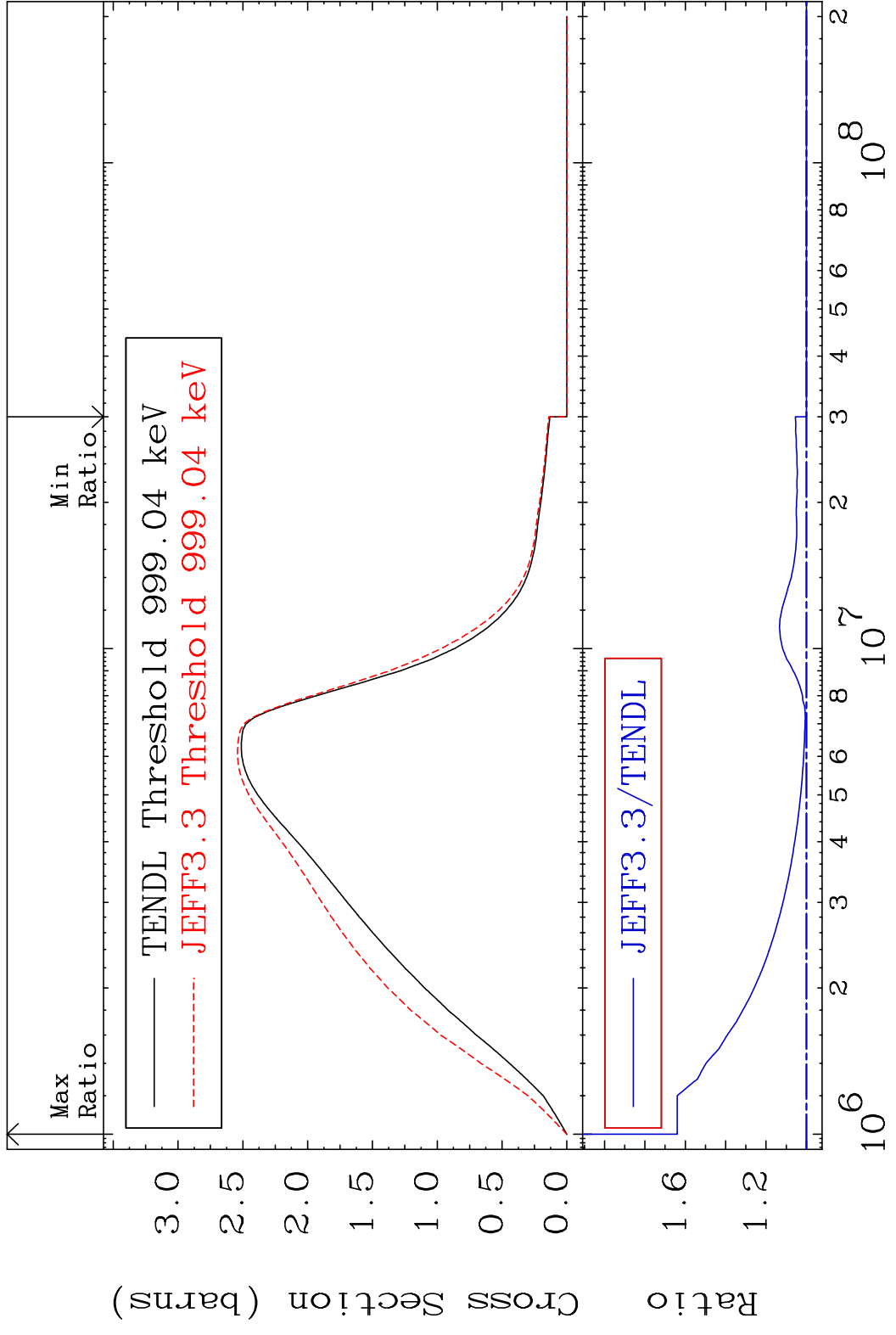
48 Incident Energy (eV) 74-W -181

MAT 7428 MT= 80 (n, n') Level 74-W -181
 Cross Section -96.03 To 9.631 %



49 Incident Energy (eV) 74-W -181

MAT 7428 (n, n') Continuum 74-W -181
 Cross Section 0.000 To 64.01 %



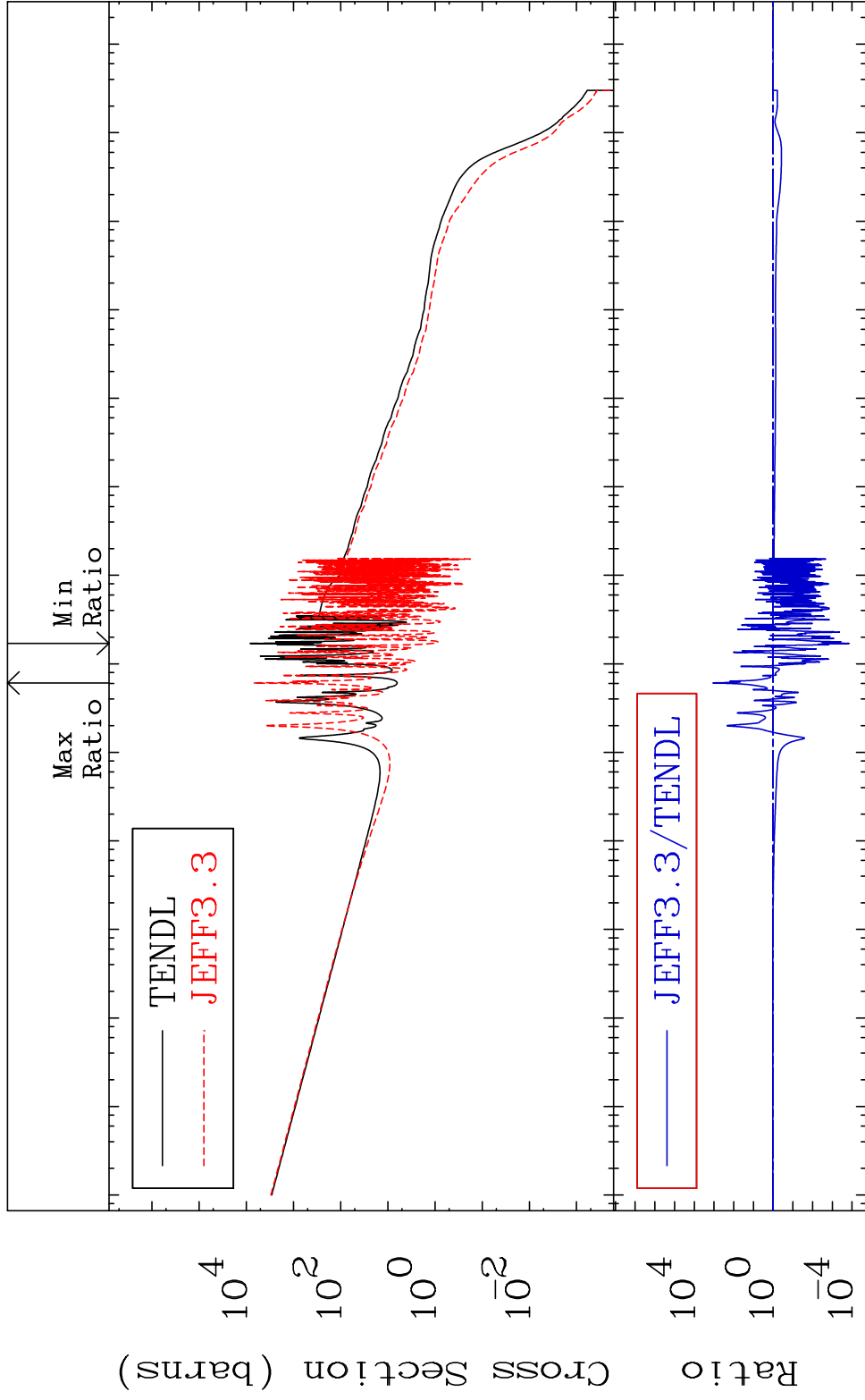
50 Incident Energy (eV) 74-W -181

MAT 7428

(n, γ)

74-W -181

Cross Section -99.99 To 9999. %



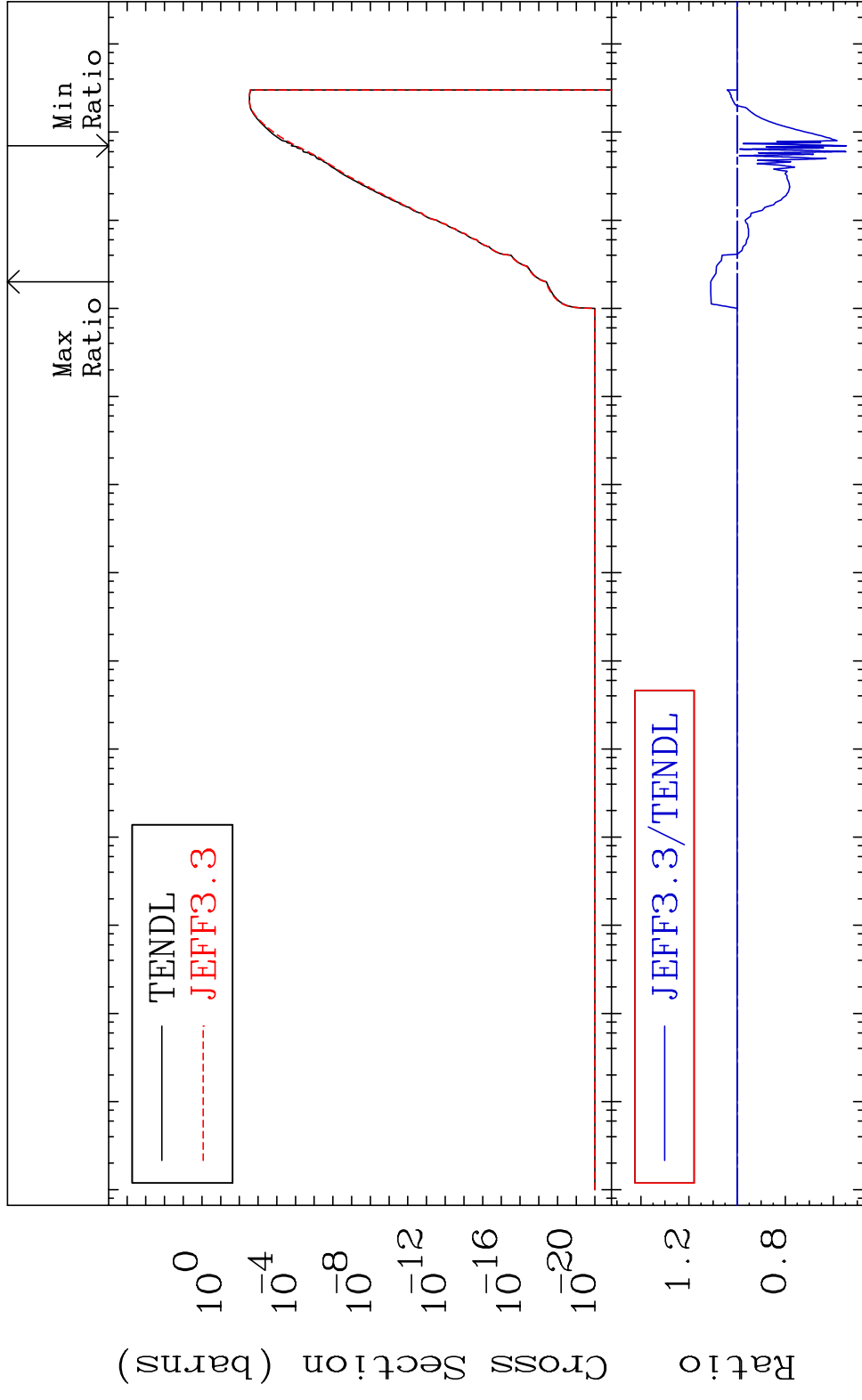
MAT 7428

(n, p)

74-W -181

Cross Section

-45.39 To 10.98 %

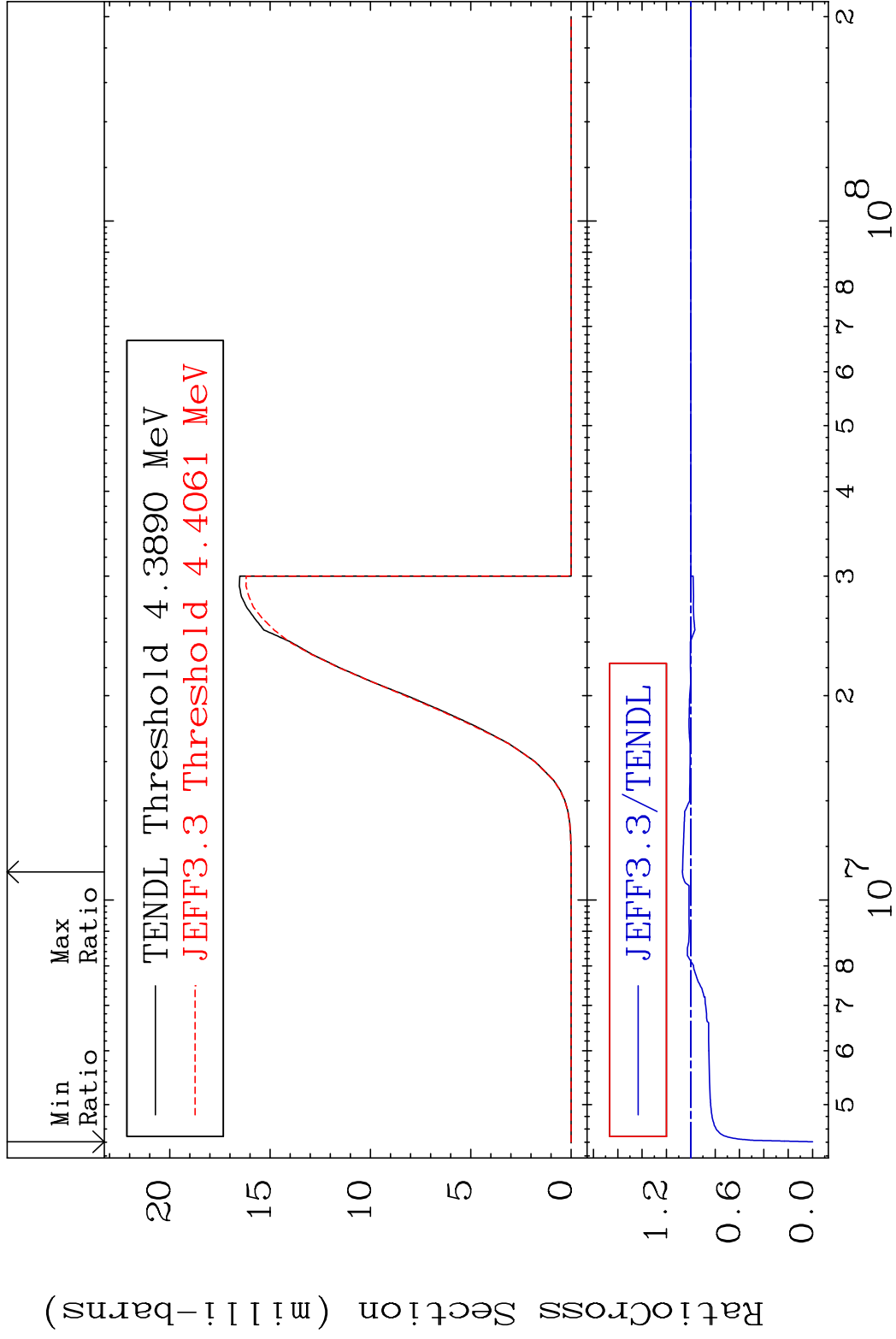


MAT 7428

(n, d)

74-W -181

Cross Section -100.0 To 6.955 %

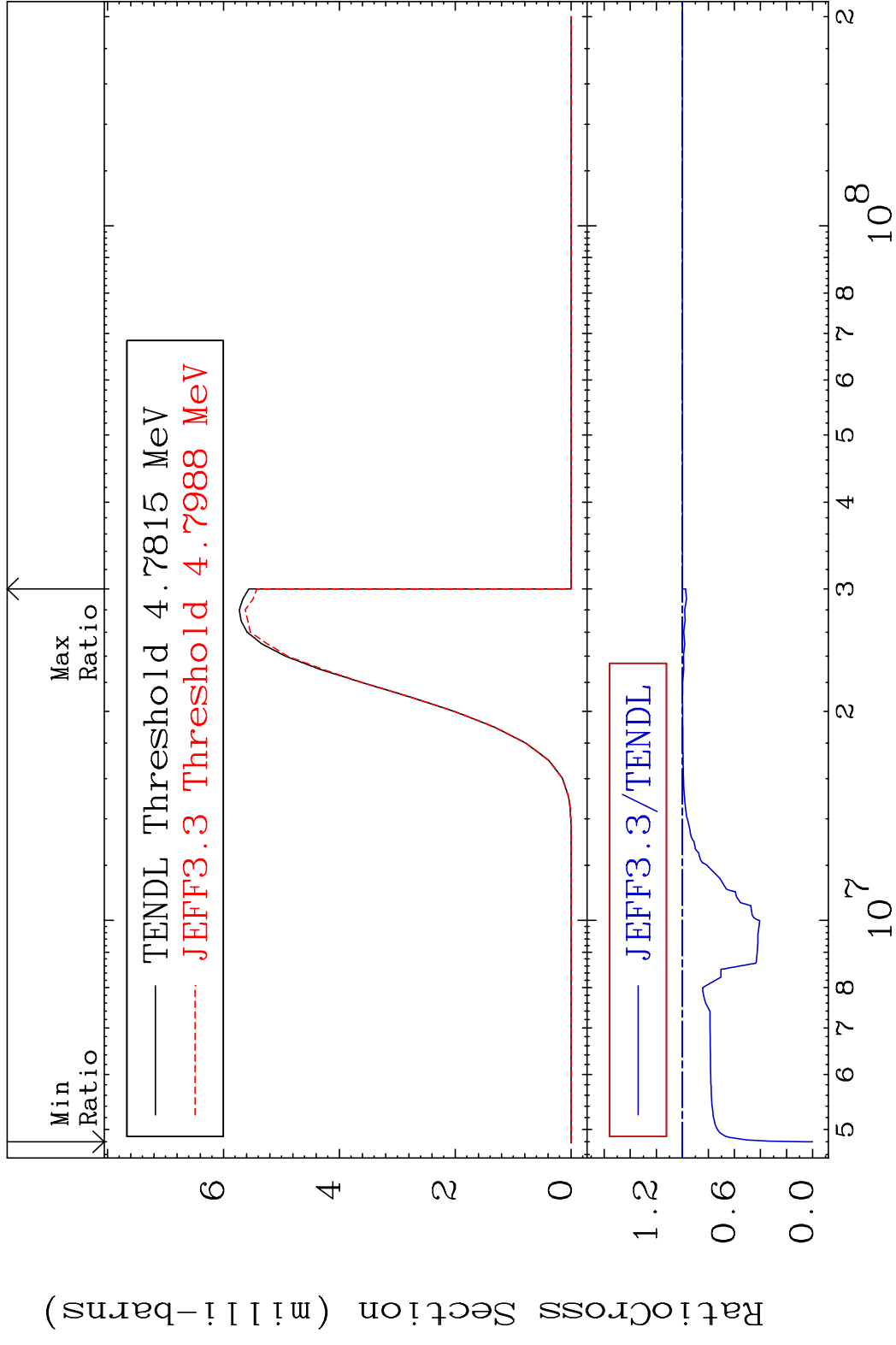


53

Incident Energy (eV)

74-W -181

MAT 7428 (n, t) 74-W -181
 Cross Section -100.0 To 0.000 %

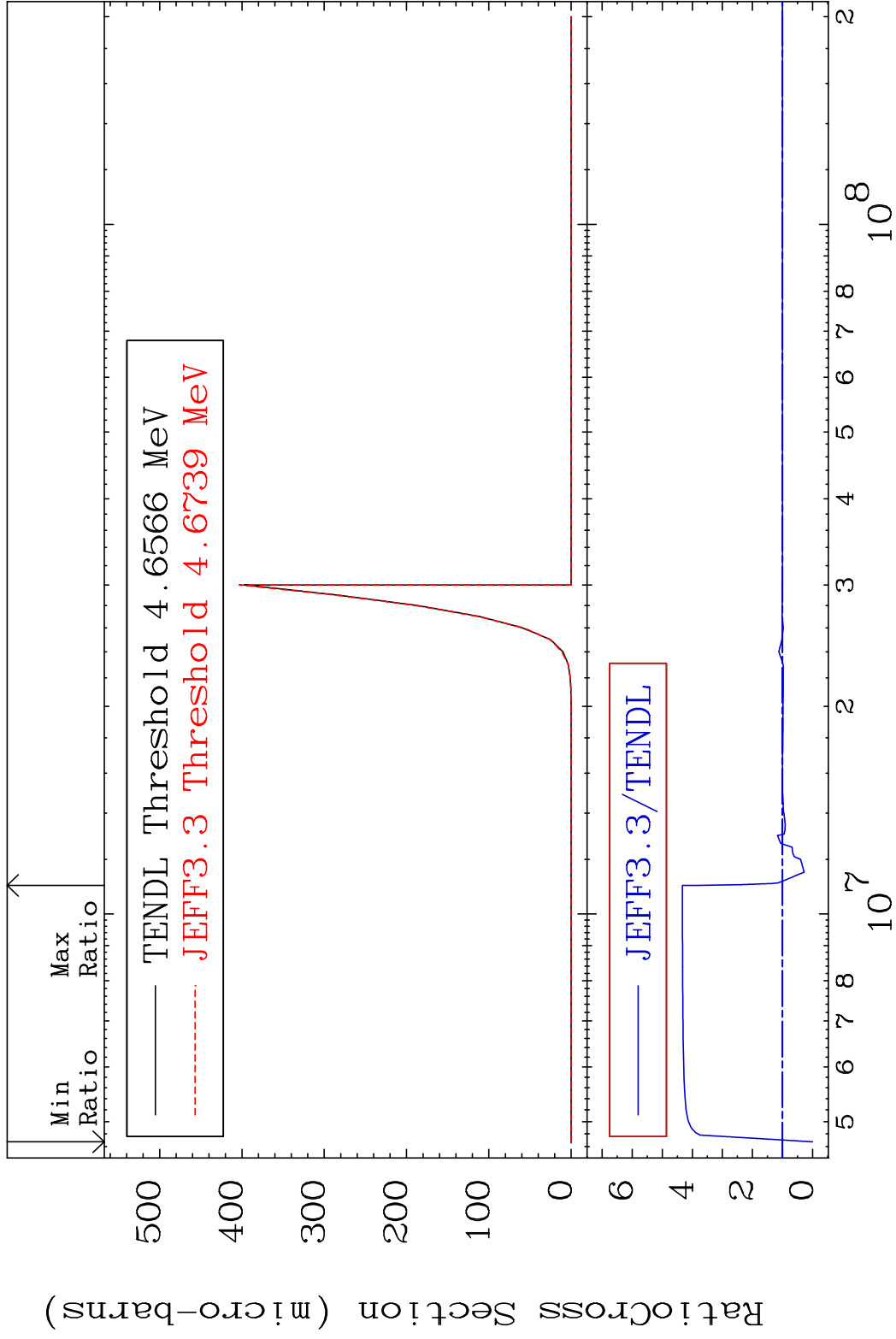


MAT 7428

(n, He-3)

74-W -181

Cross Section -100.0 To 333.1 %



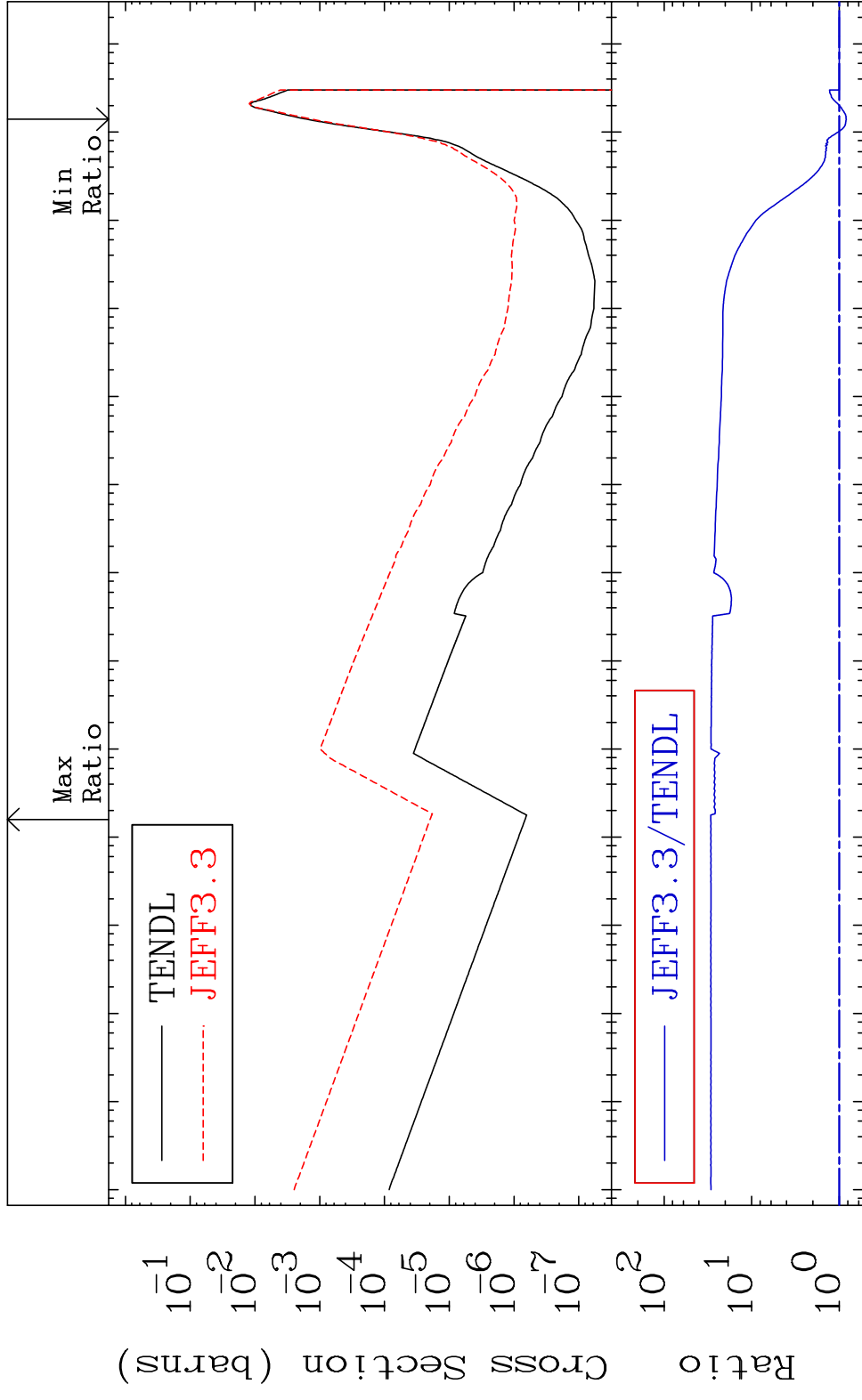
55

Incident Energy (eV)

74-W -181

MAT 7428

(n, α)
Cross Section -16.98 To 2835. %
74-W -181

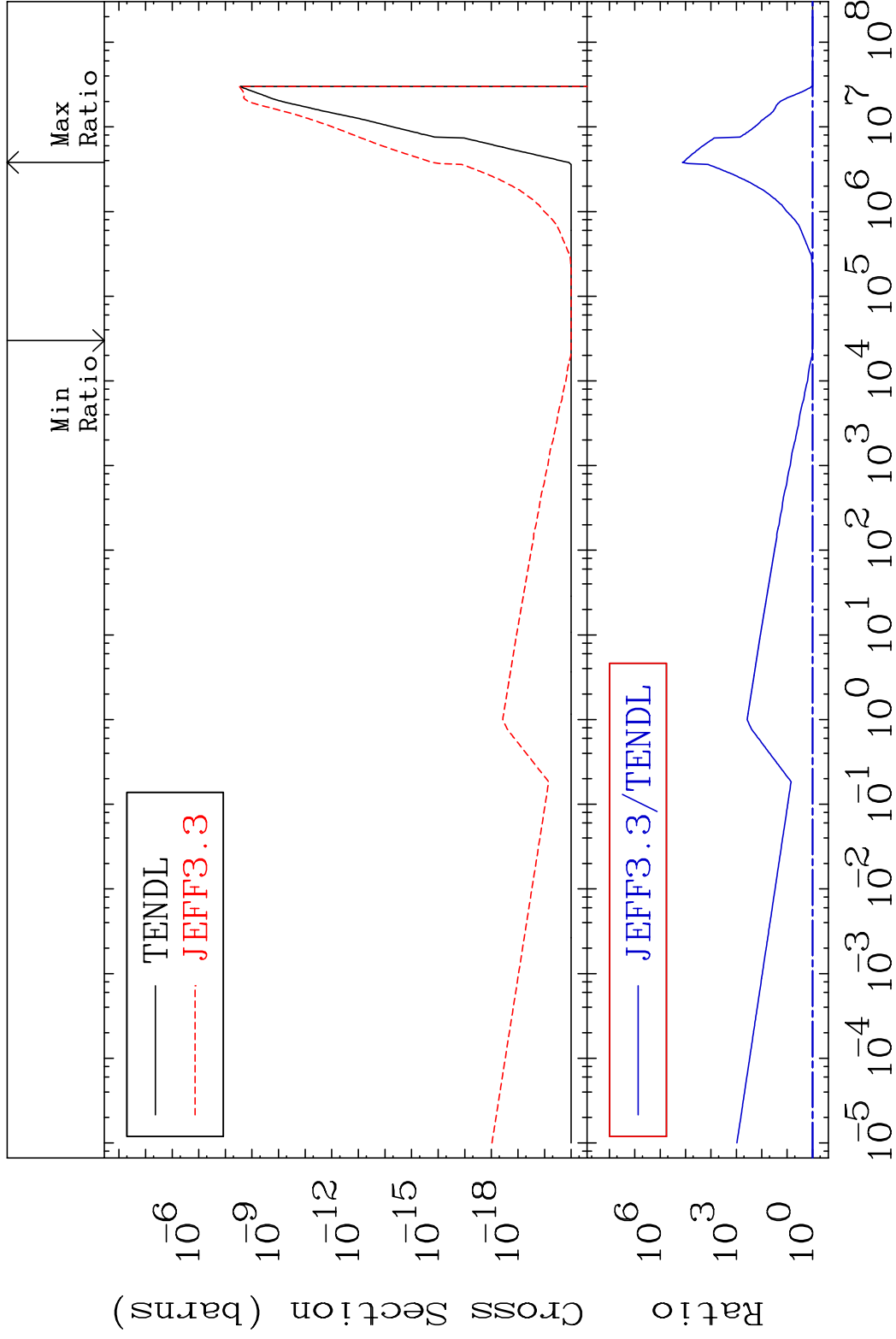


MAT 7428

(n,2α)

74-W -181

Cross Section 0.000 To 9999. %



57

Incident Energy (eV)

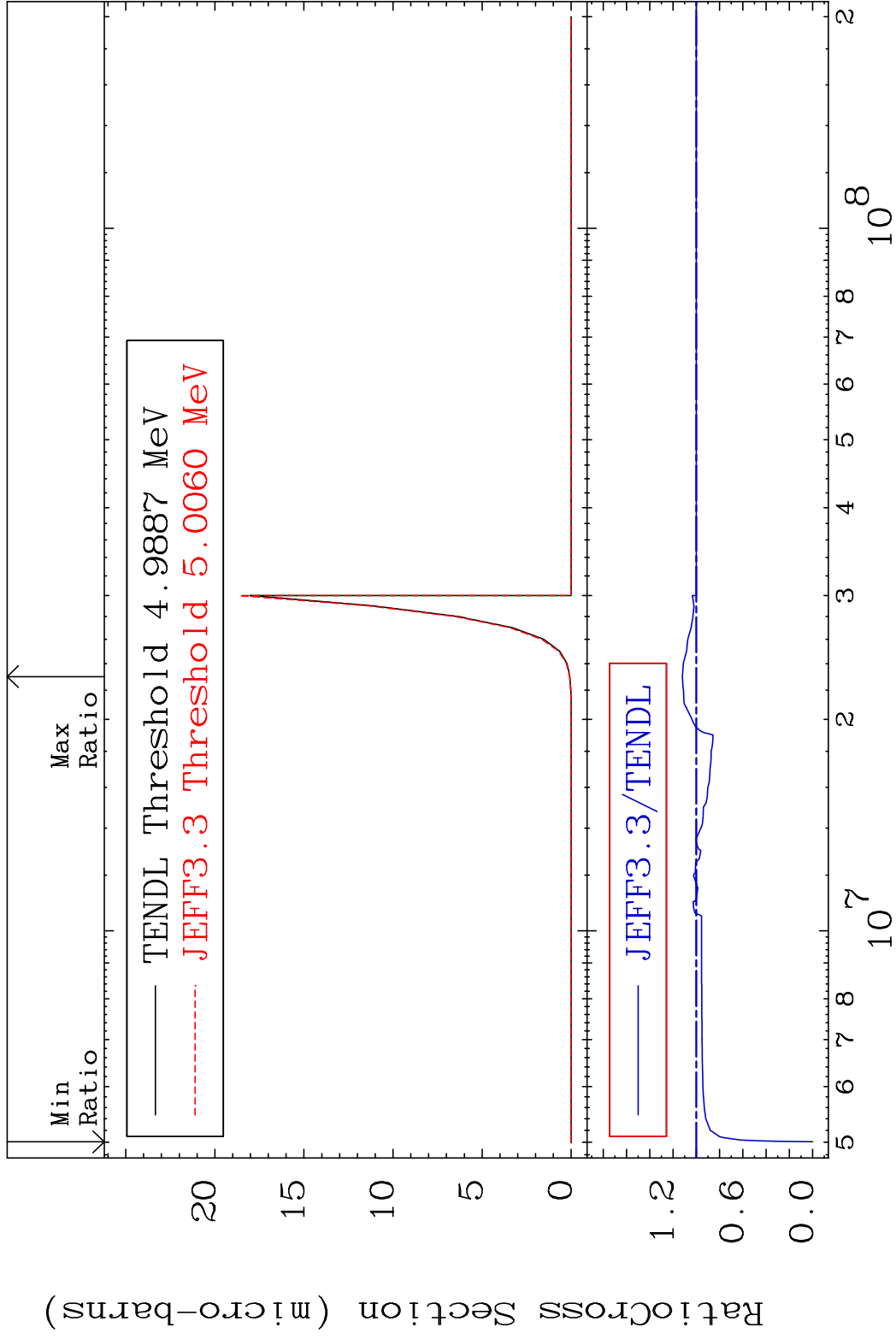
74-W -181

MAT 7428

(n,2p)

74-W -181

Cross Section -100.0 To 11.97 %



58

Incident Energy (eV)

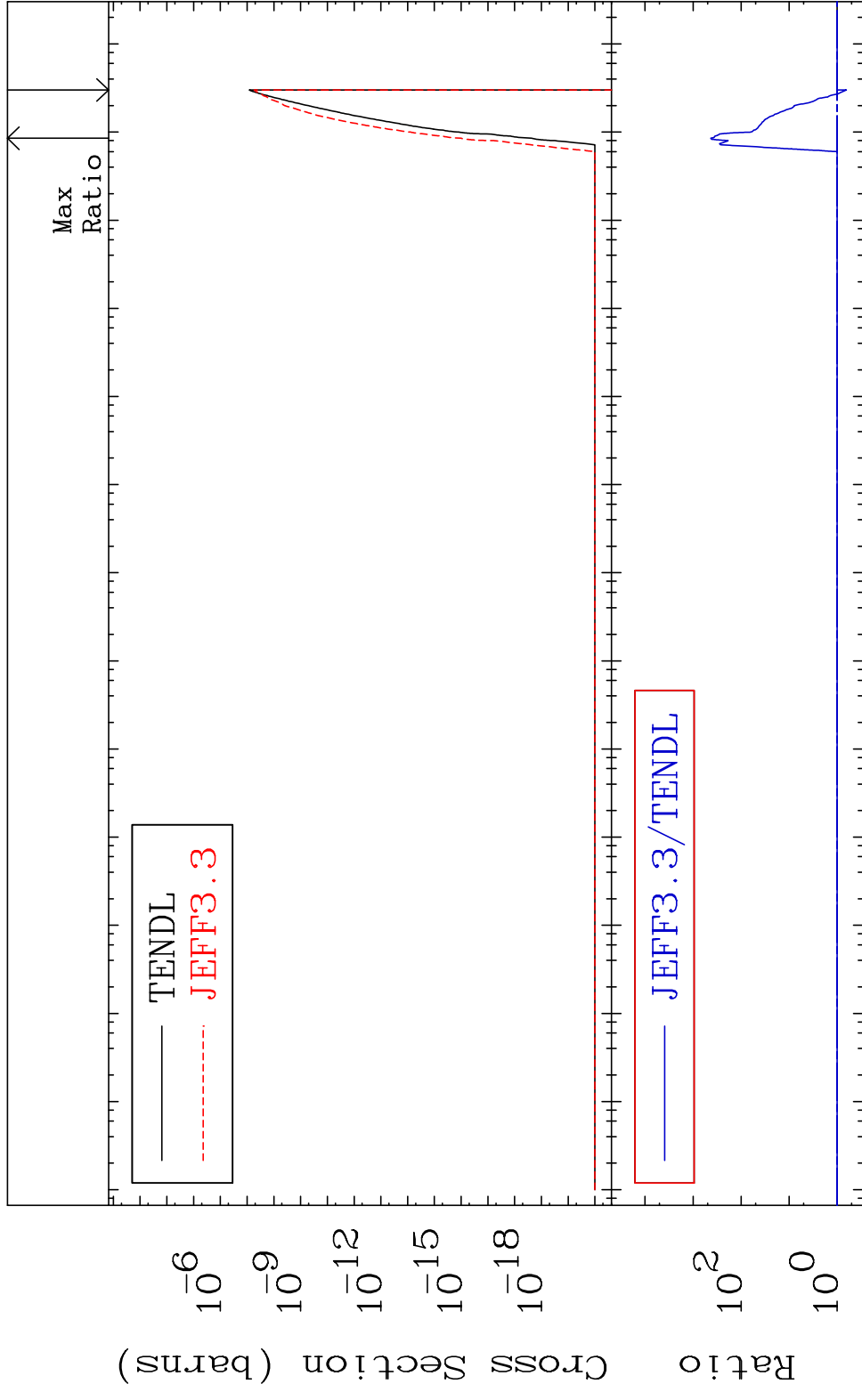
74-W -181

MAT 7428

(n,p) α

74-W -181

Cross Section -35.35 To 9999. %



59

Incident Energy (eV)

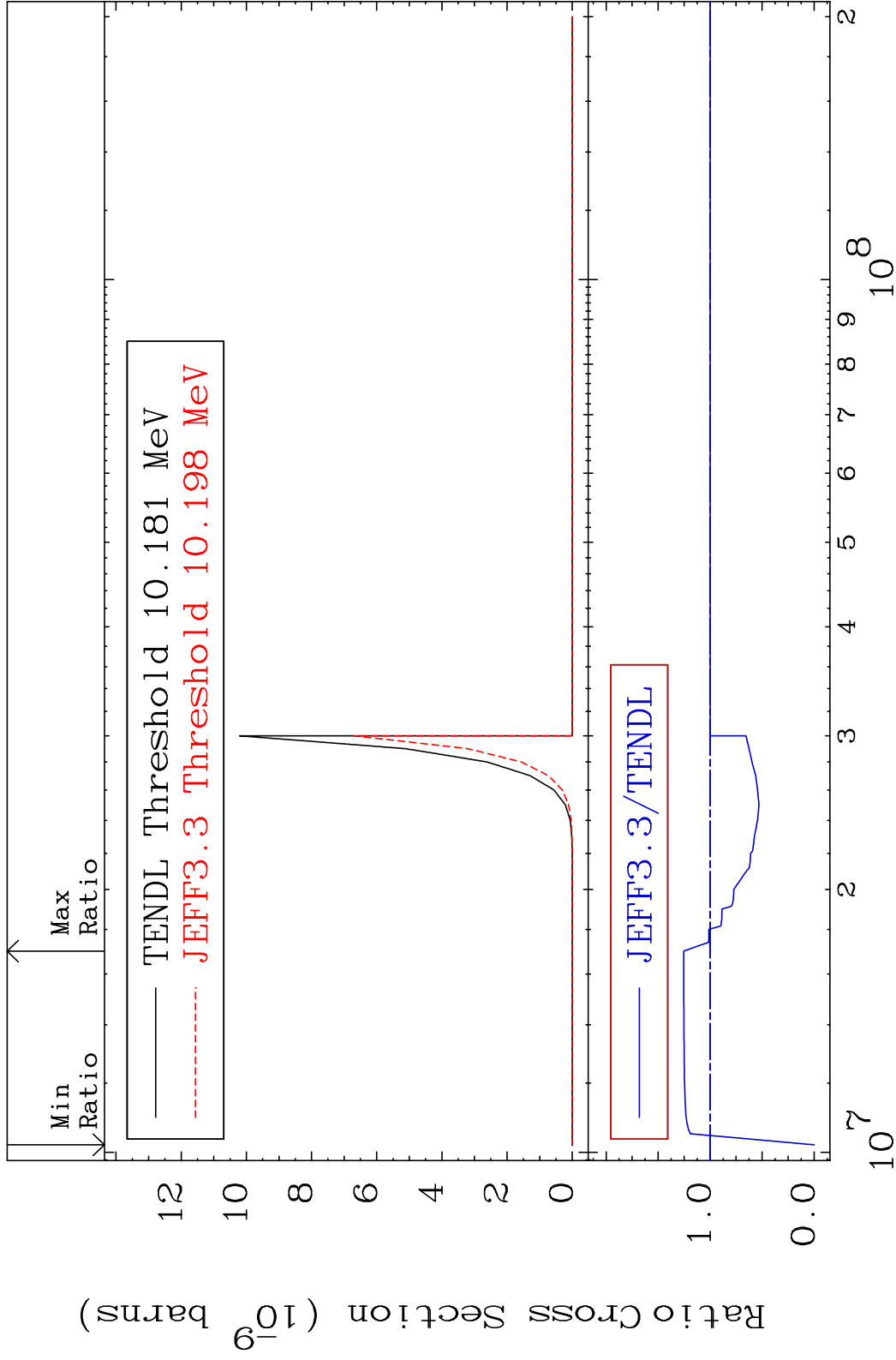
74-W -181

MAT 7428

(n,p) d

74-W -181

Cross Section -100.0 To 25.45 %



60

Incident Energy (eV)

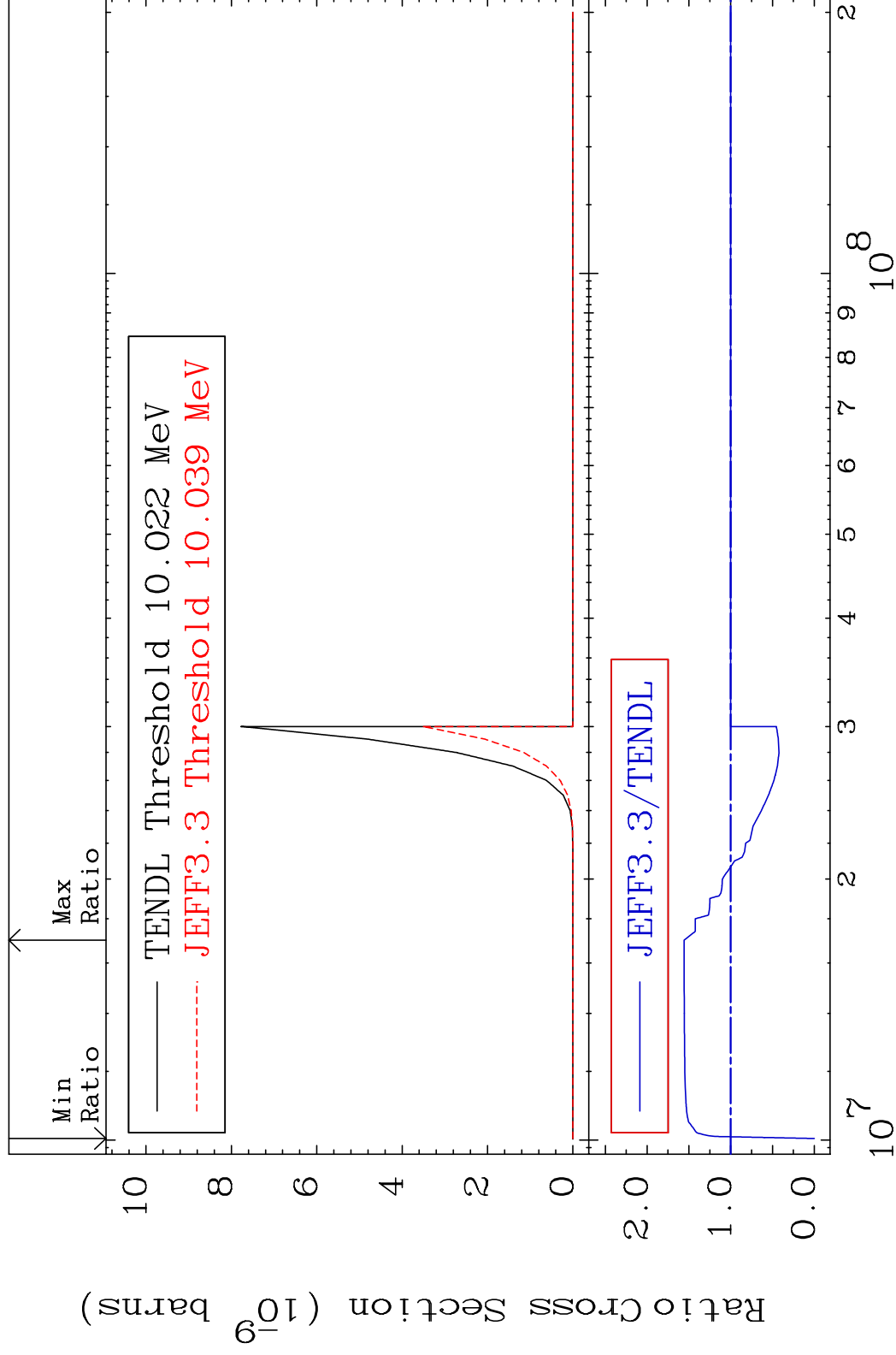
74-W -181

MAT 7428

(n,p) t

74-W -181

Cross Section -100.0 To 55.79 %



61

Incident Energy (eV)

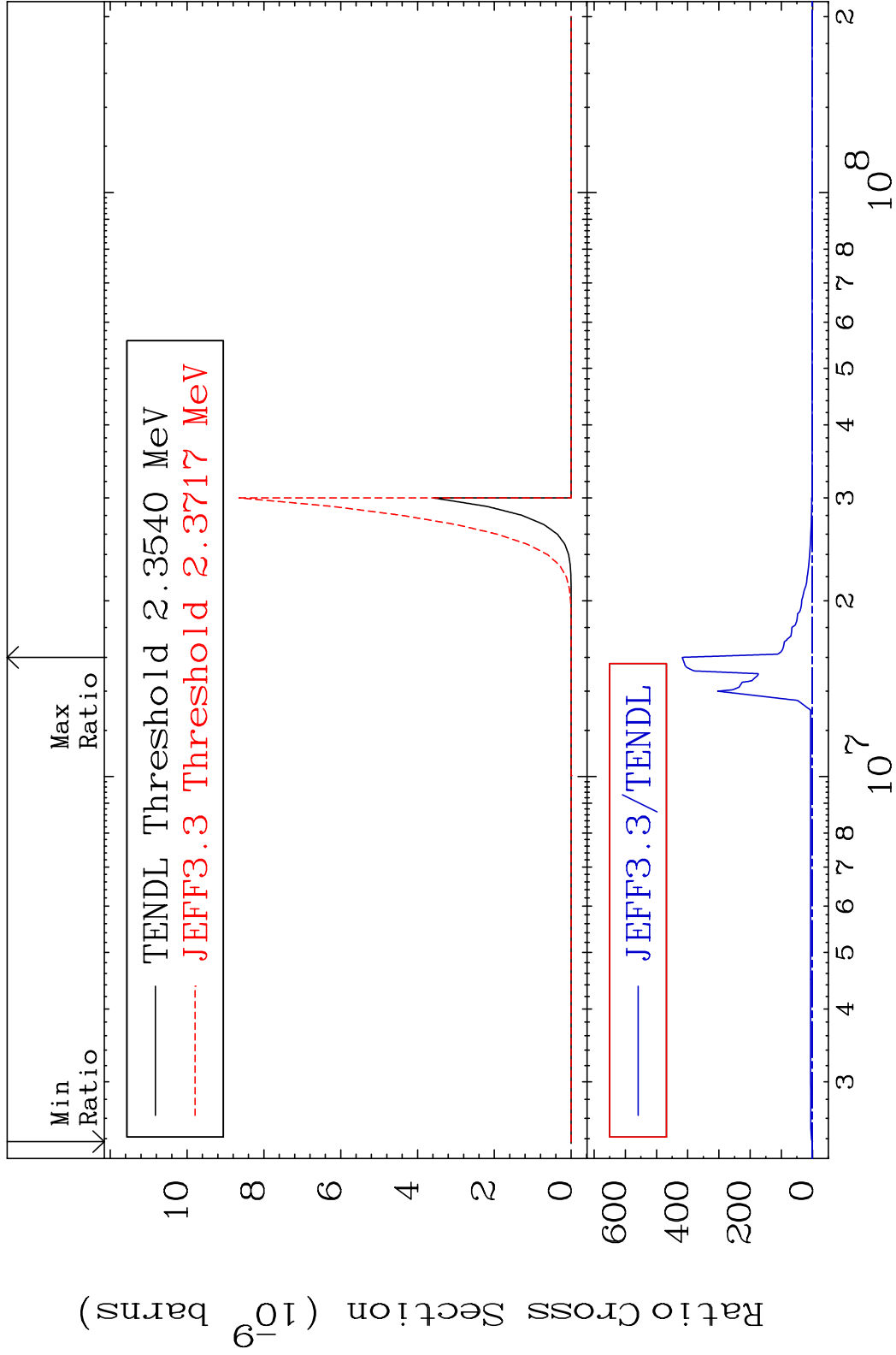
74-W -181

MAT 7428

(n,d) α

74-W -181

Cross Section -100.0 To 9999. %



62

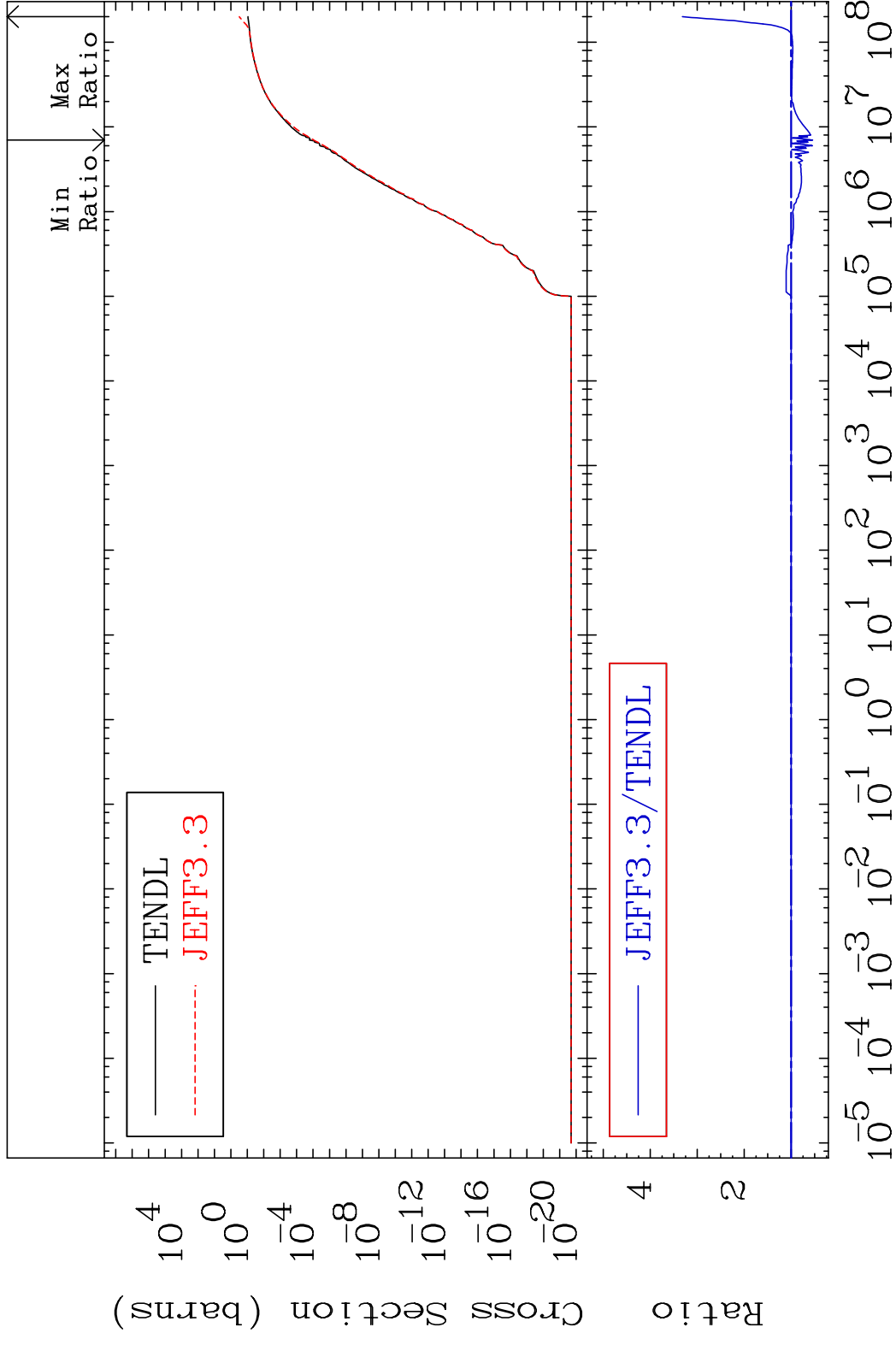
Incident Energy (eV)

74-W -181

MAT 7428

Hydrogen Production
Cross Section -45.39 To 231.7 %

74-W -181



63

Incident Energy (eV)

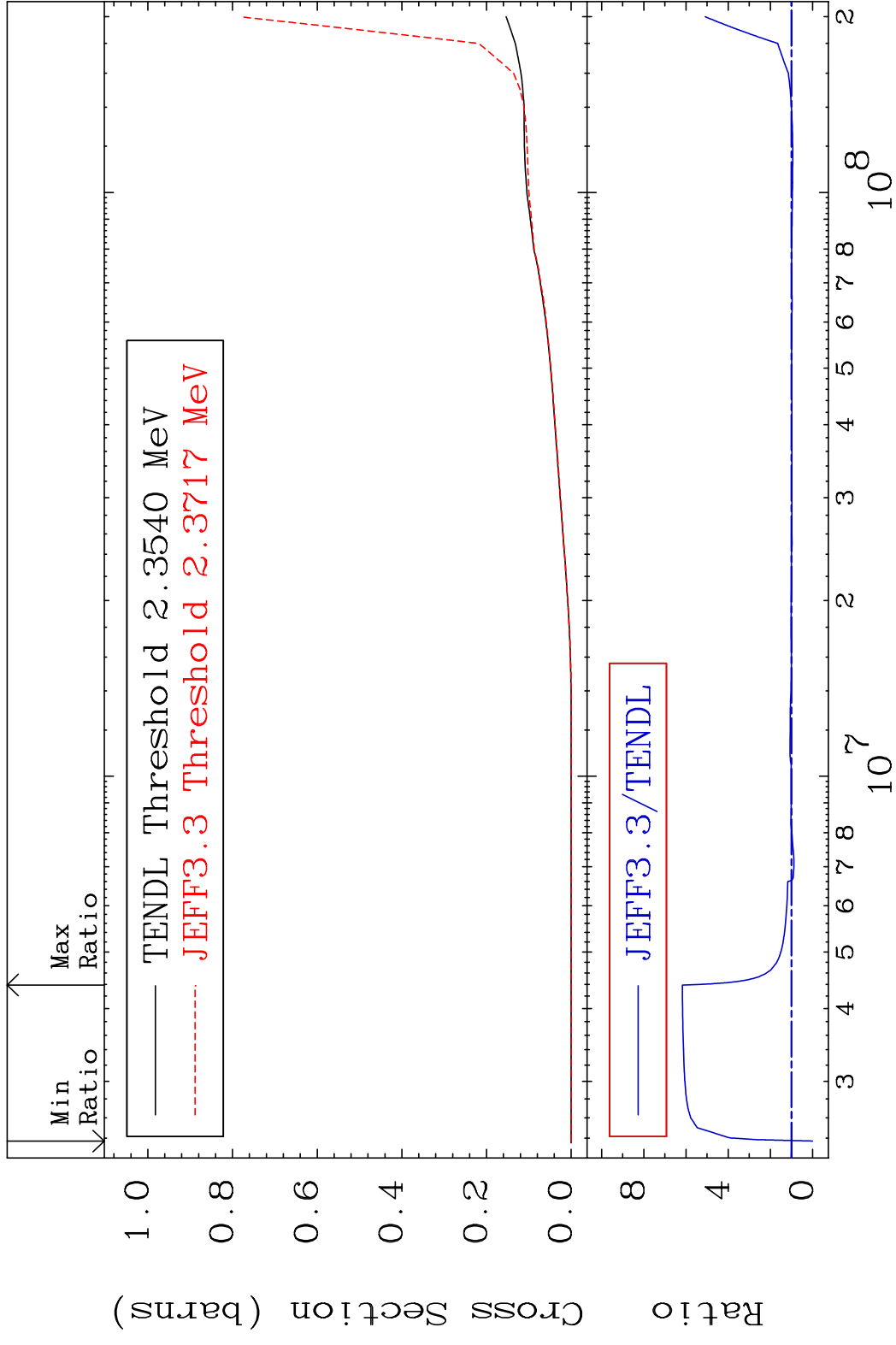
74-W -181

MAT 7428

Deuterium Production

74-W -181

Cross Section -100.0 To 517.3 %



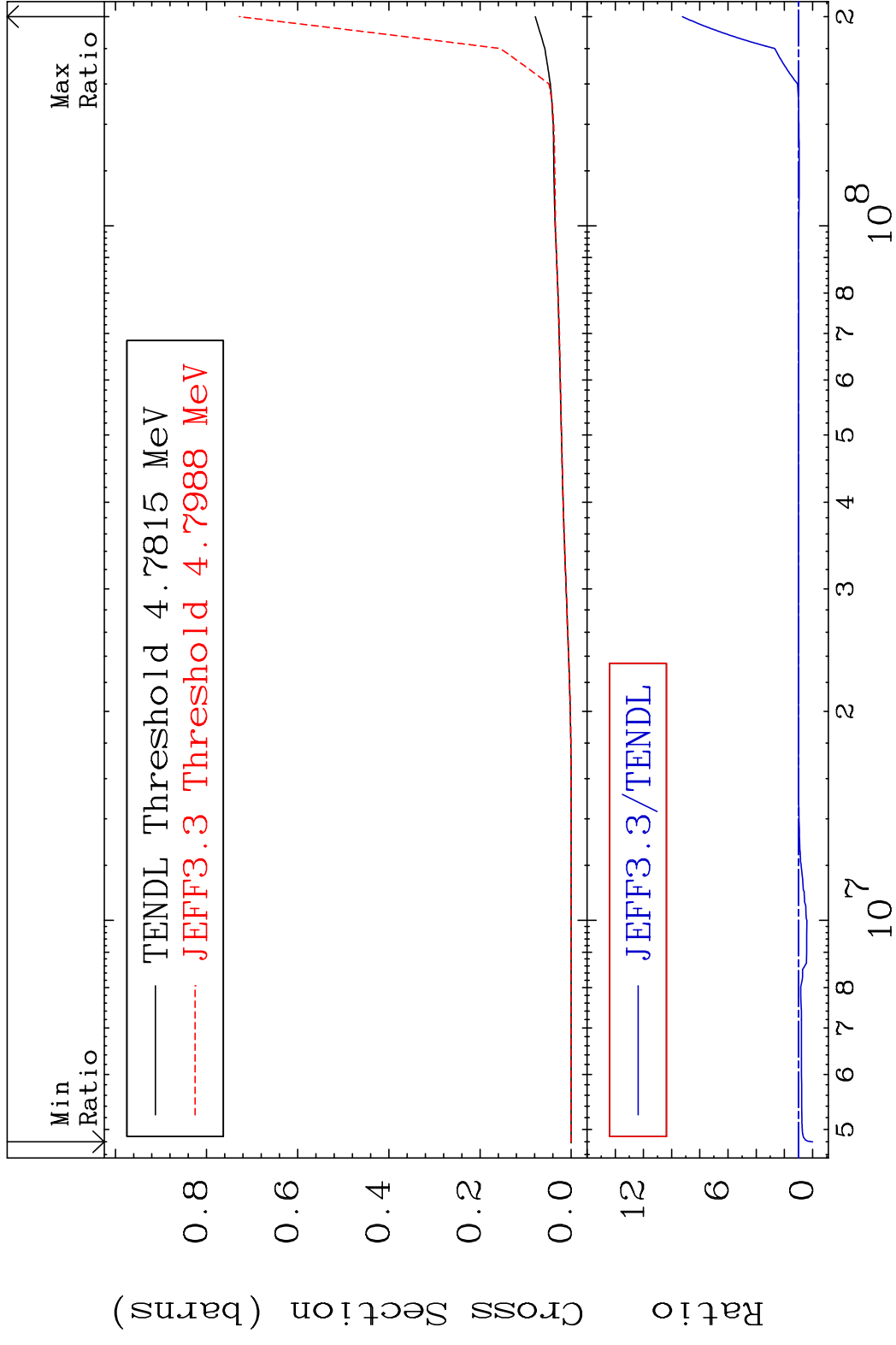
64

Incident Energy (eV)

74-W -181

MAT 7428

Tritium Production 74-W -181
Cross Section -100.0 To 823.8 %



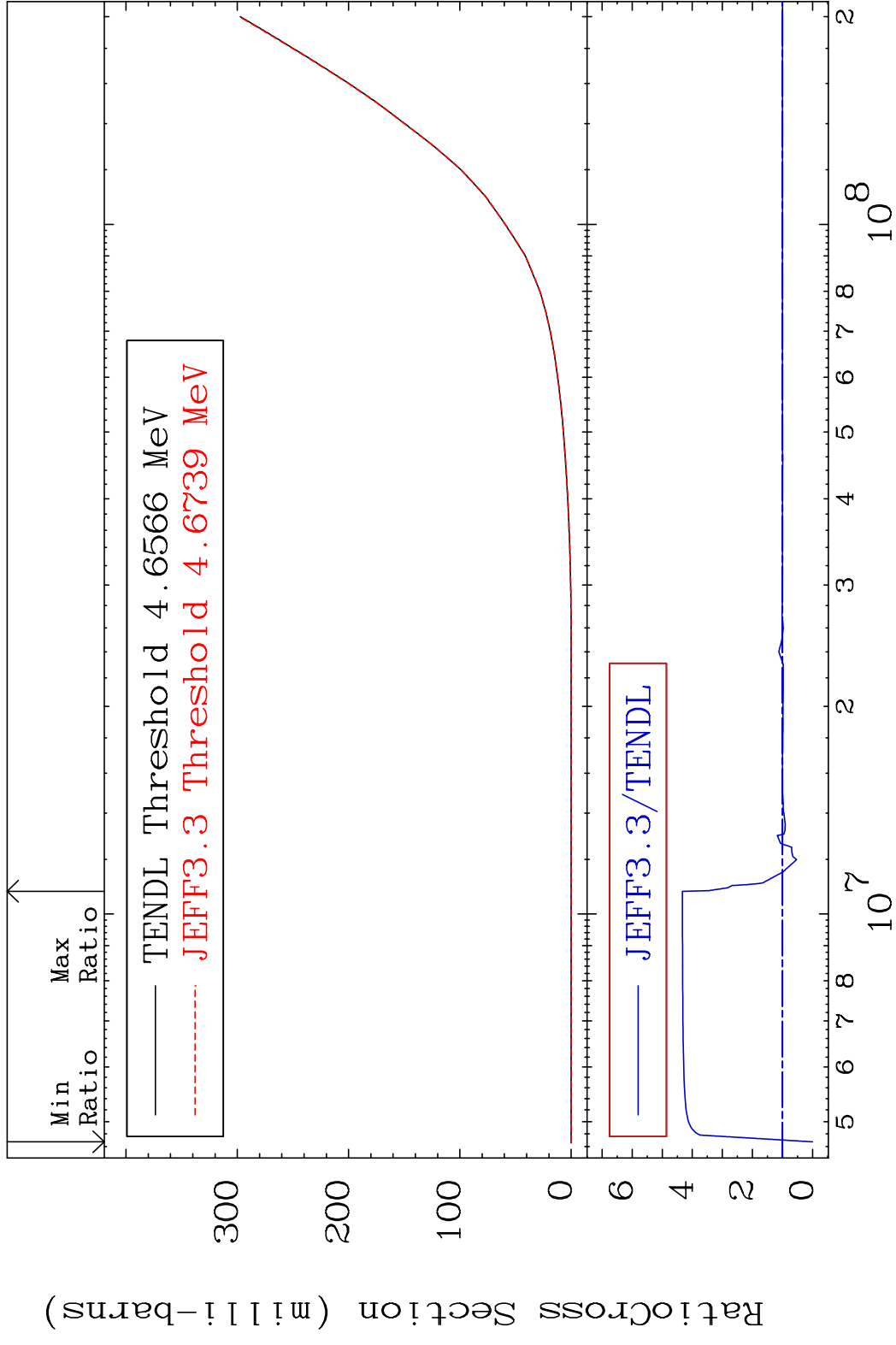
65

Incident Energy (eV)

74-W -181

MAT 7428

He-3 Production 74-W -181
Cross Section -100.0 To 333.1 %

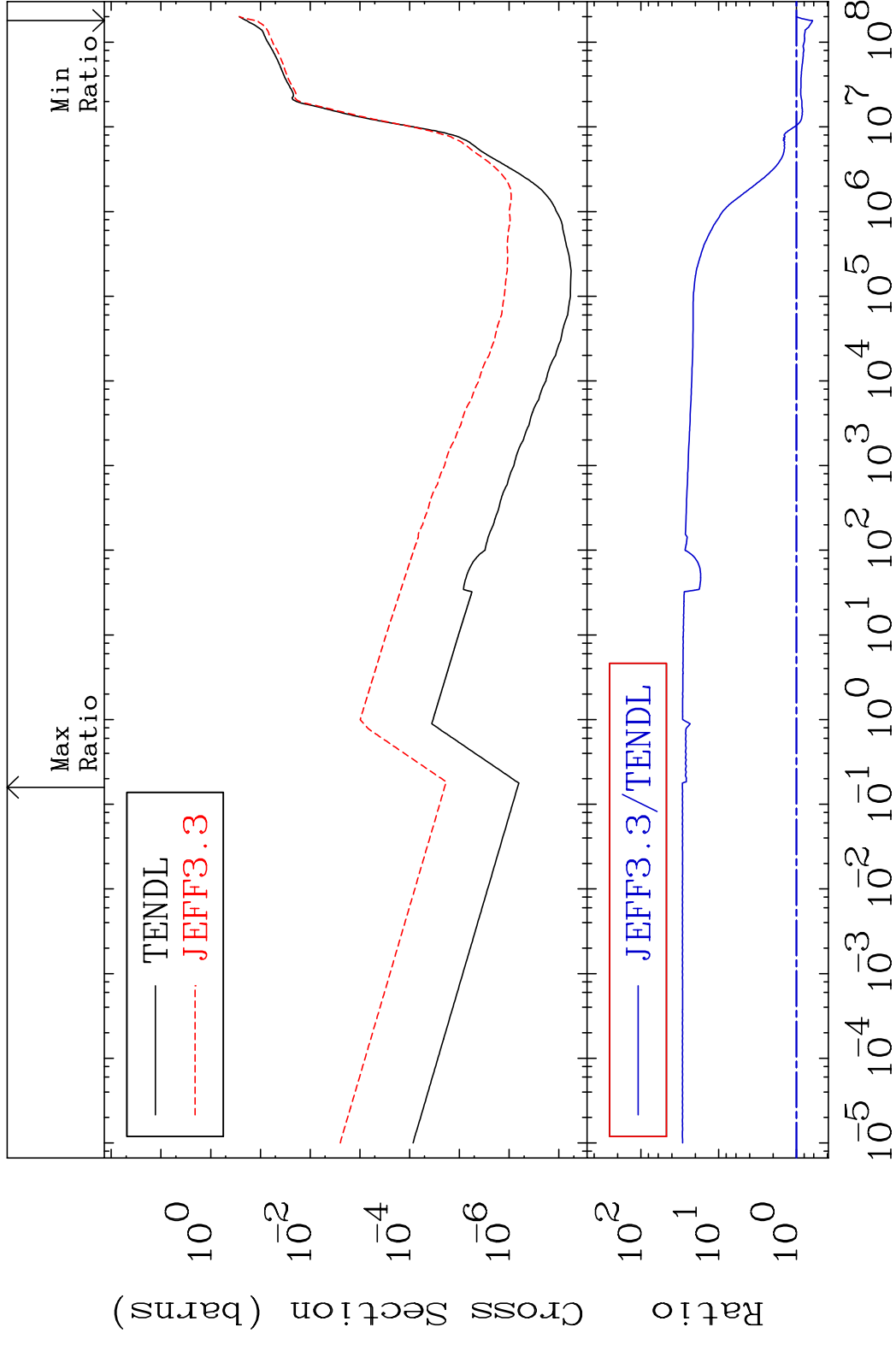


MAT 7428

He-4 Production

74-W -181

Cross Section -37.78 To 2835. %

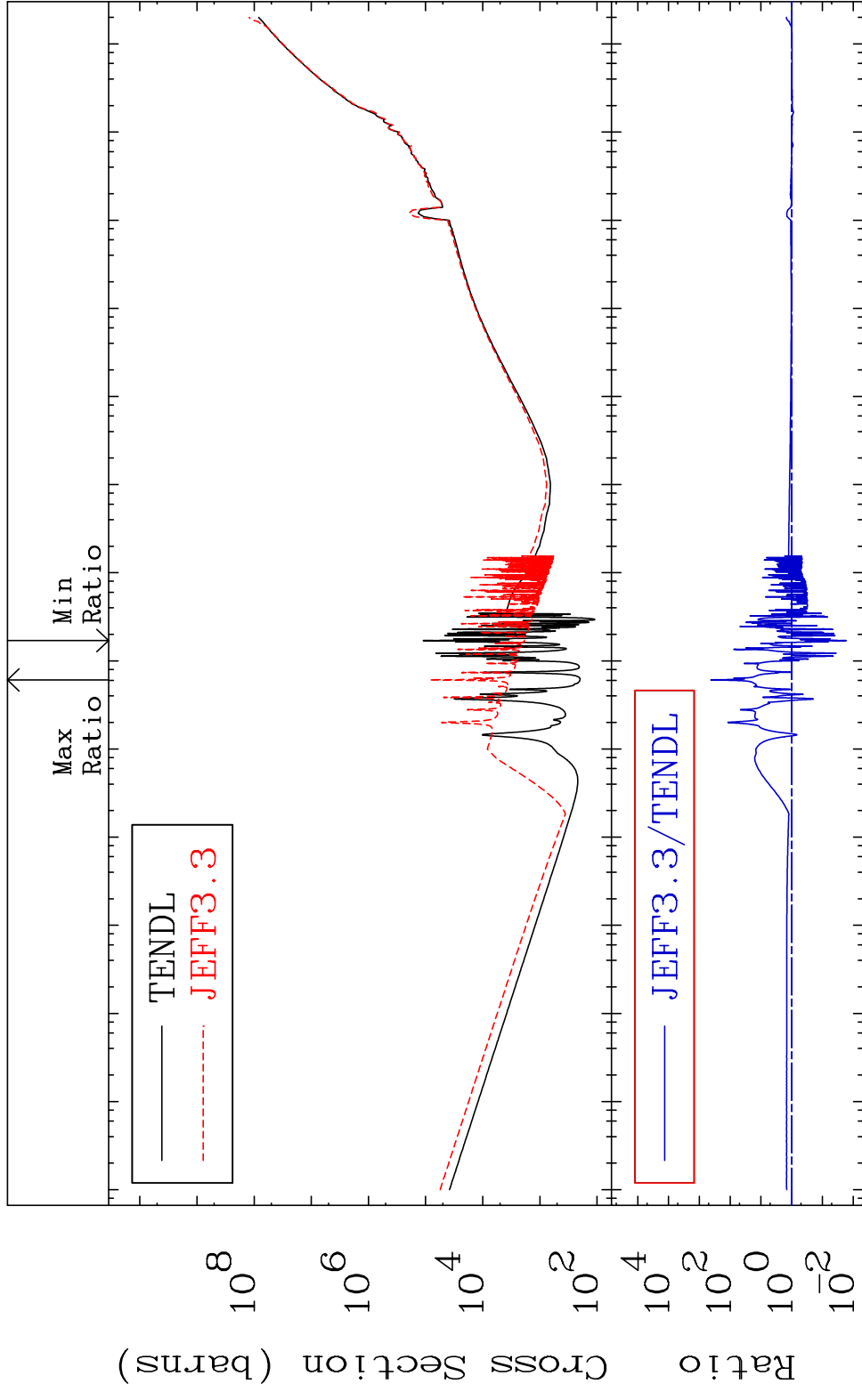


67

Incident Energy (eV)

74-W -181

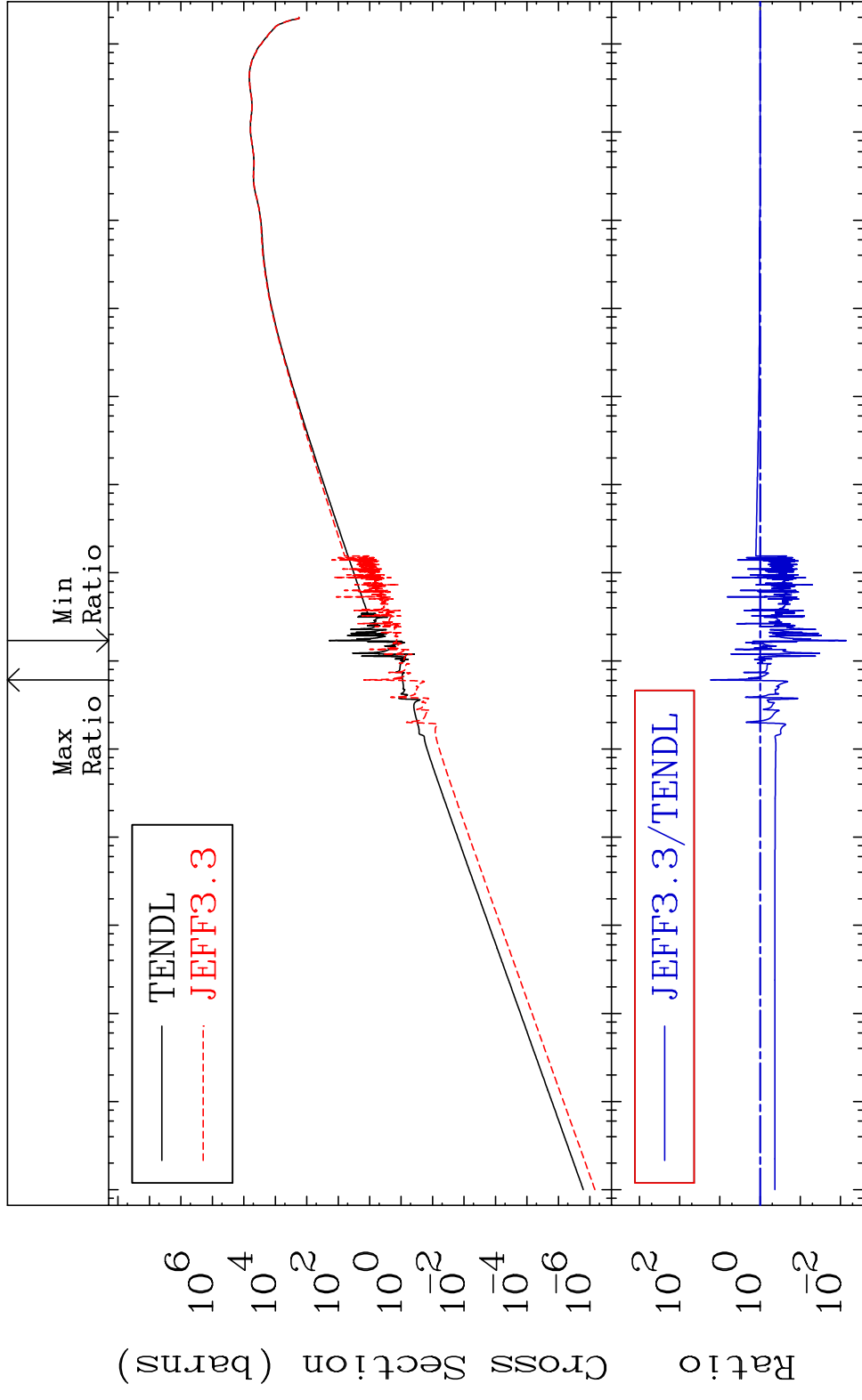
MAT 7428 Kerma total (eV-barns) 74-W -181
 Cross Section -98.32 To 9999. %



68 Incident Energy (eV) 74-W -181

MAT 7428

Kerma elastic Cross Section -99.29 To 1592. %
74-W -181

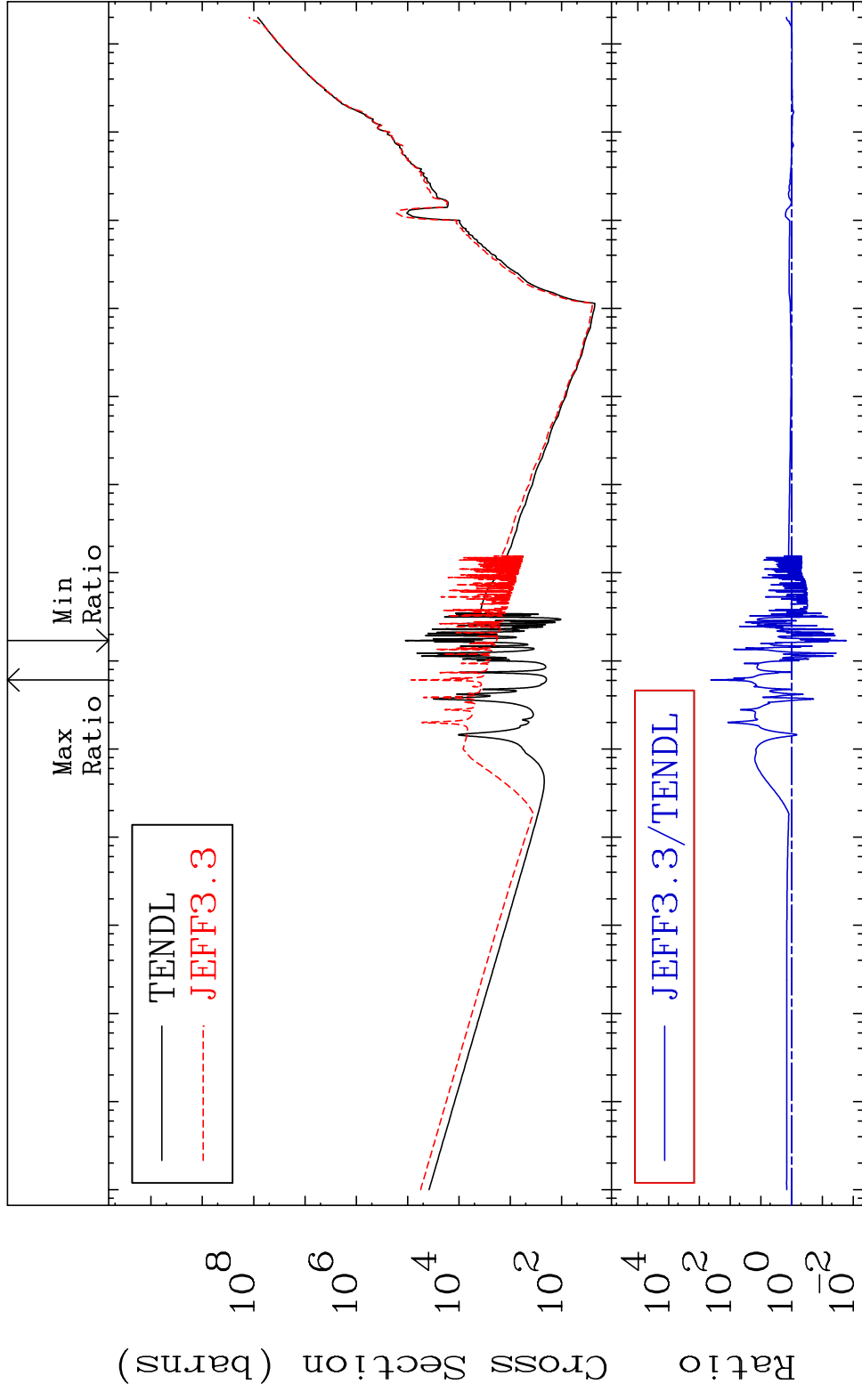


Ratio
Cross Section (barns)
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻⁶
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV)

69

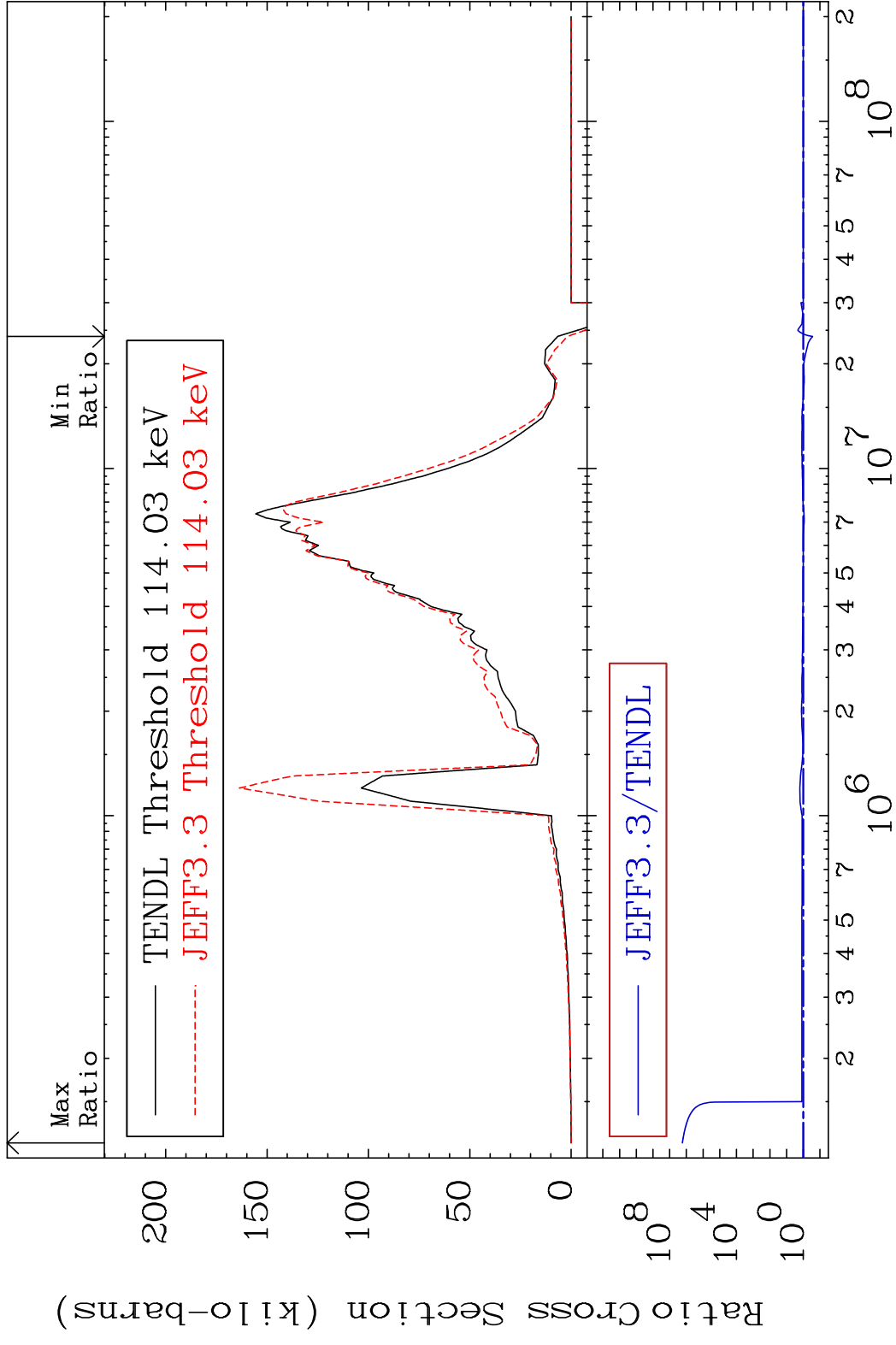
74-W -181

MAT 7428 Kerma non-elastic (all but mt2) 74-W -181
 Cross Section -98.32 To 9999. %

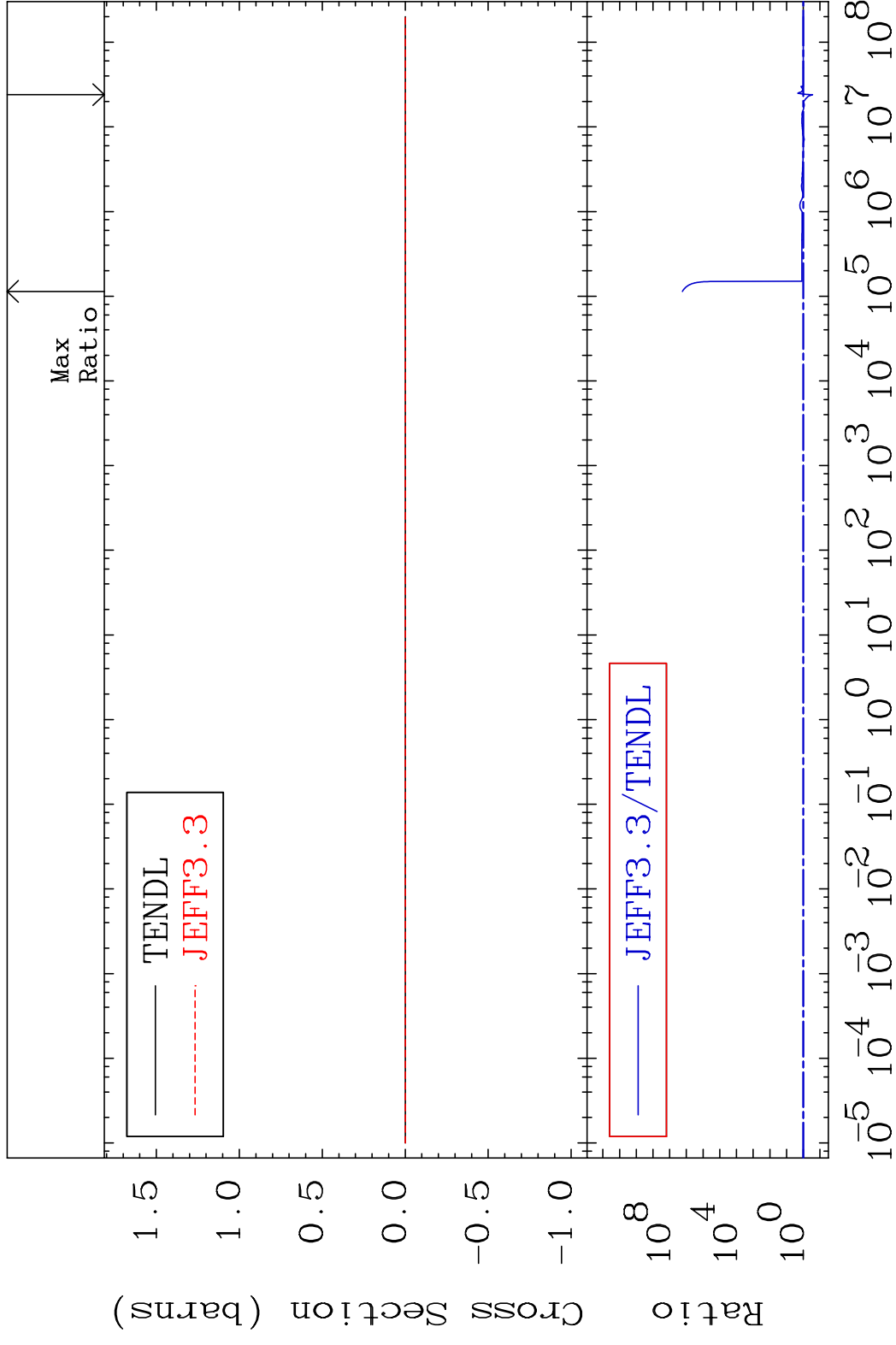


70 Incident Energy (eV) 74-W -181

MAT 7428 Kerma inelastic (mt51-91) 74-W -181
 Cross Section -72.21 To 9999. %

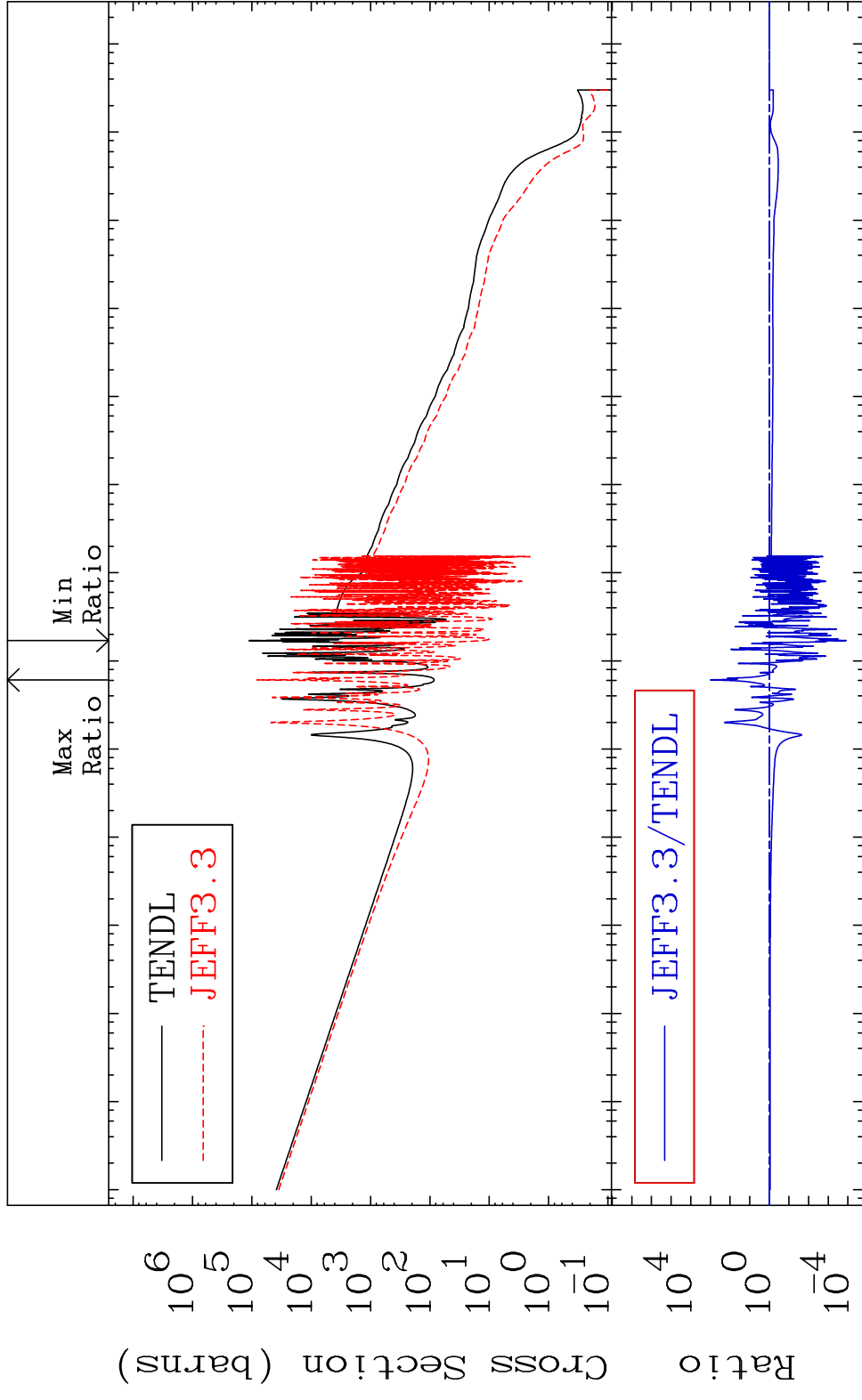


MAT 7428 Kerma fission (mt18 or mt19-20-21-38) 74-W -181
 Cross Section -72.21 To 9999. %



MAT 7428

Kerma capture (mt102) 74-W -181
Cross Section -99.99 To 9999. %

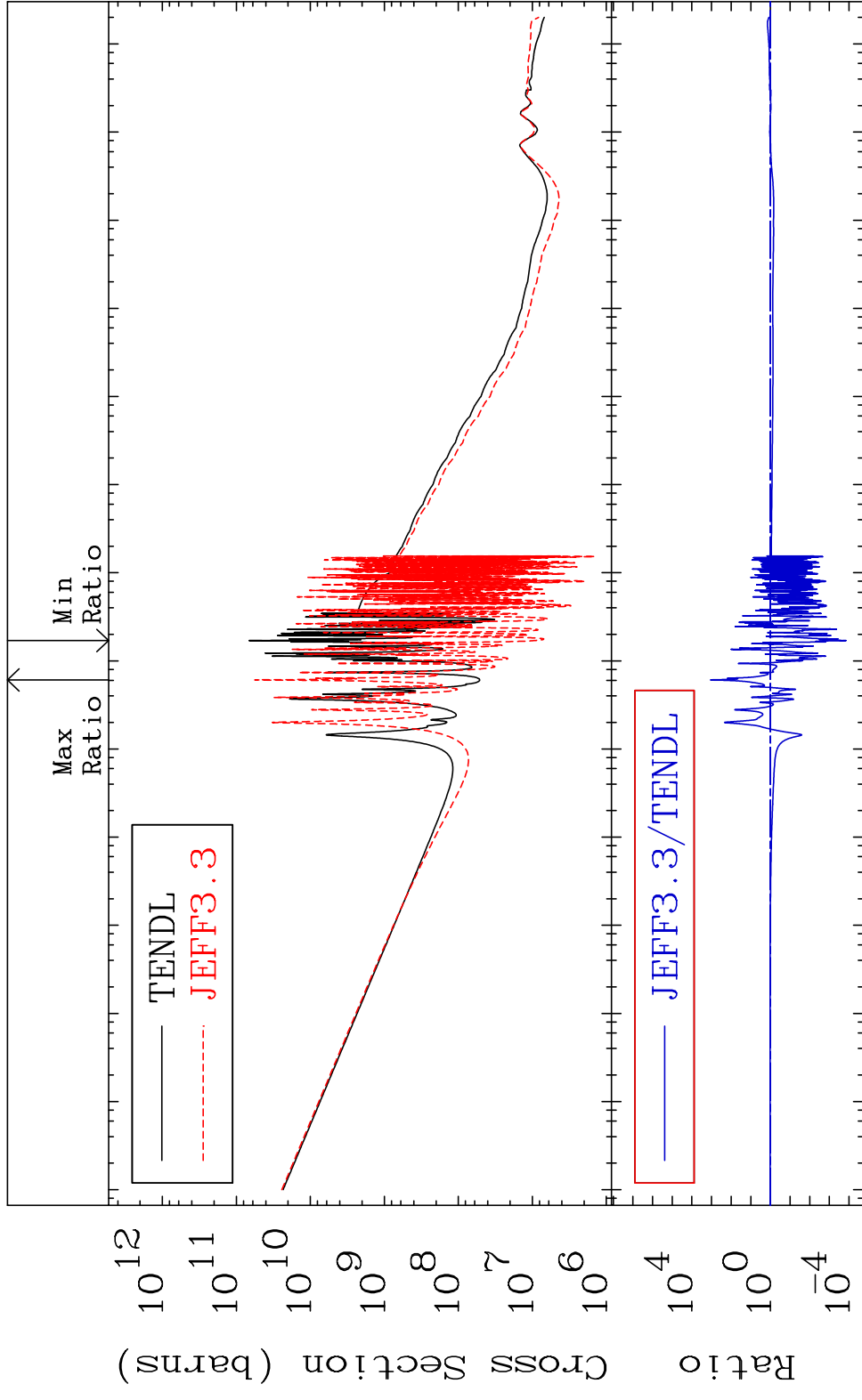


73

Incident Energy (eV)

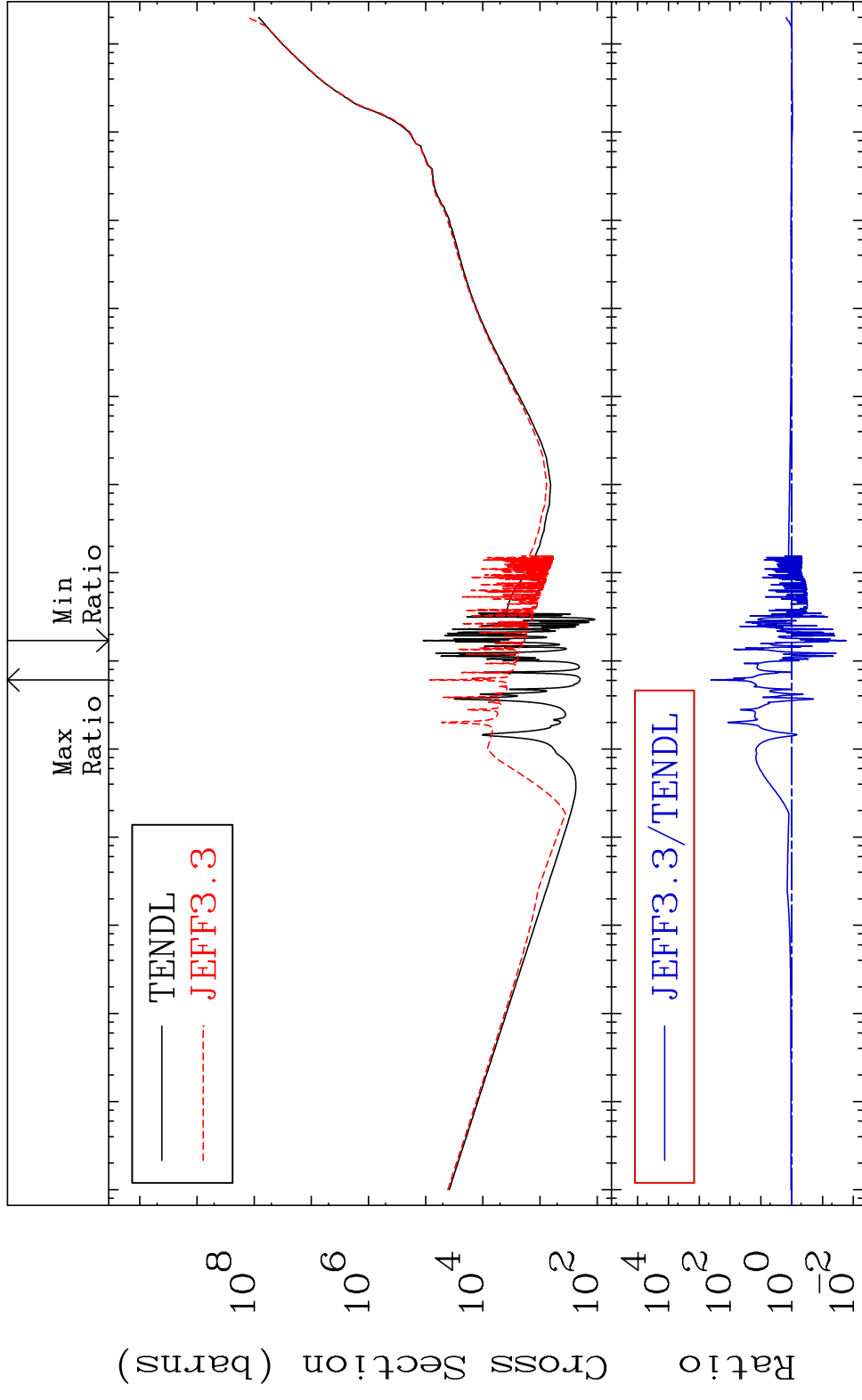
74-W -181

MAT 7428 Total photon (eV-barns) 74-W -181
 Cross Section -99.99 To 9999. %



74 Incident Energy (eV) 74-W -181

MAT 7428 Total kinematic kerma (high limit) 74-W -181
 Cross Section -98.31 To 9999. %



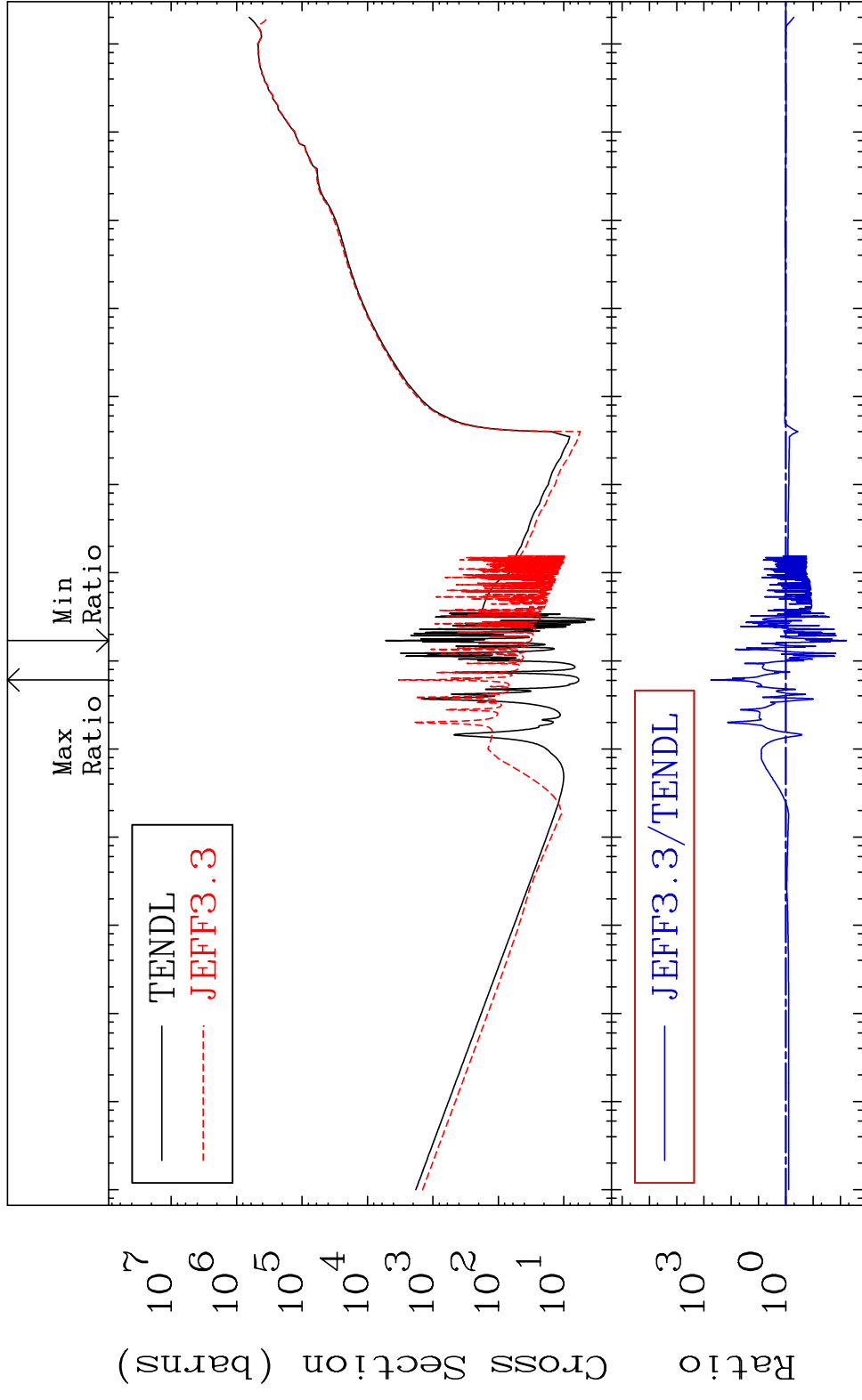
75 Incident Energy (eV) 74-W -181

MAT 7428

Dpa total (eV-barns)

74-W -181

Cross Section -99.39 To 9999. %



Cross Section (barns)

Ratio

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

Incident Energy (eV)

76

Incident Energy (eV)

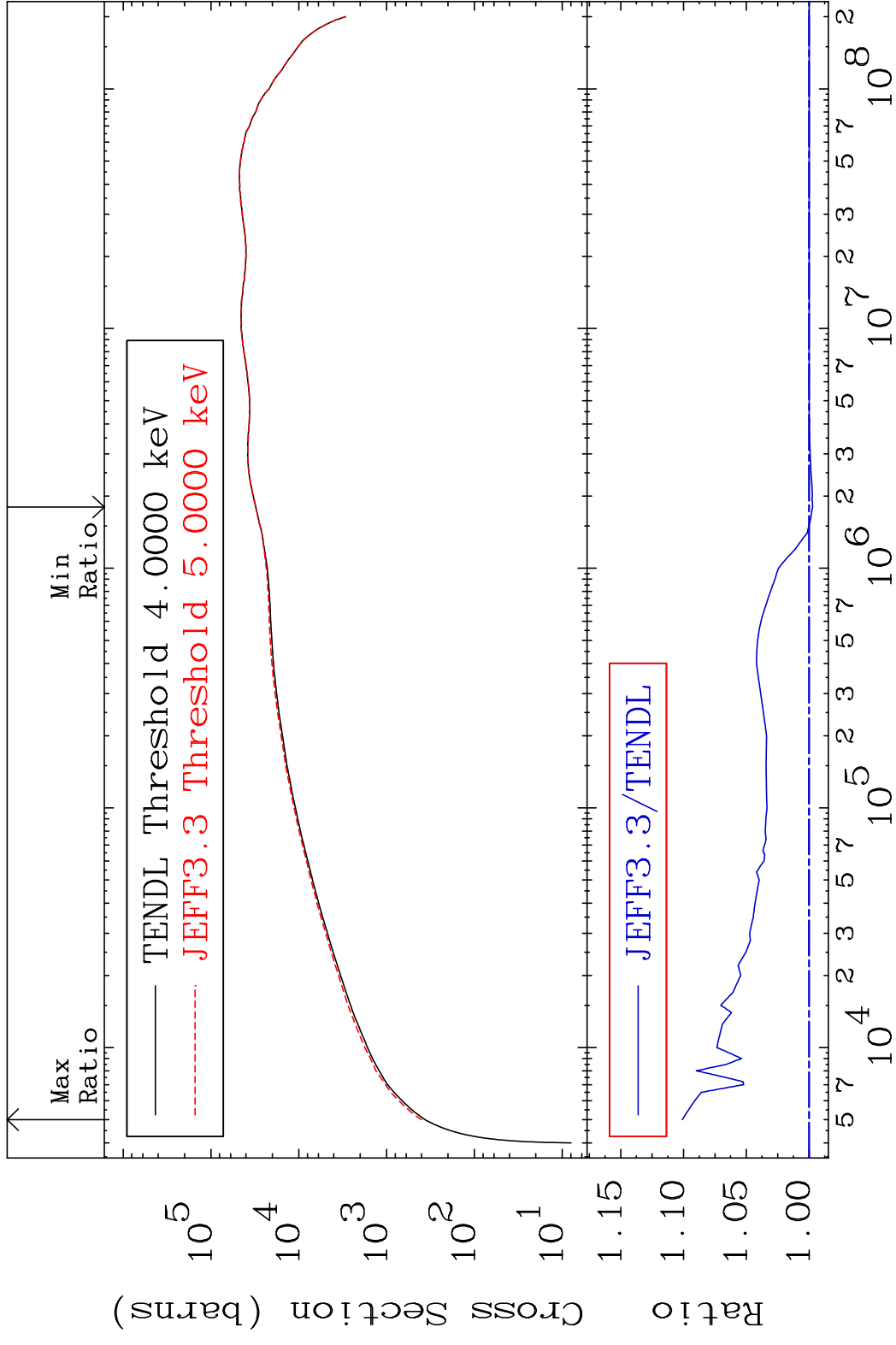
74-W -181

MAT 7428

Dpa elastic (mt2)

74-W -181

Cross Section -0.275 To 10.09 %

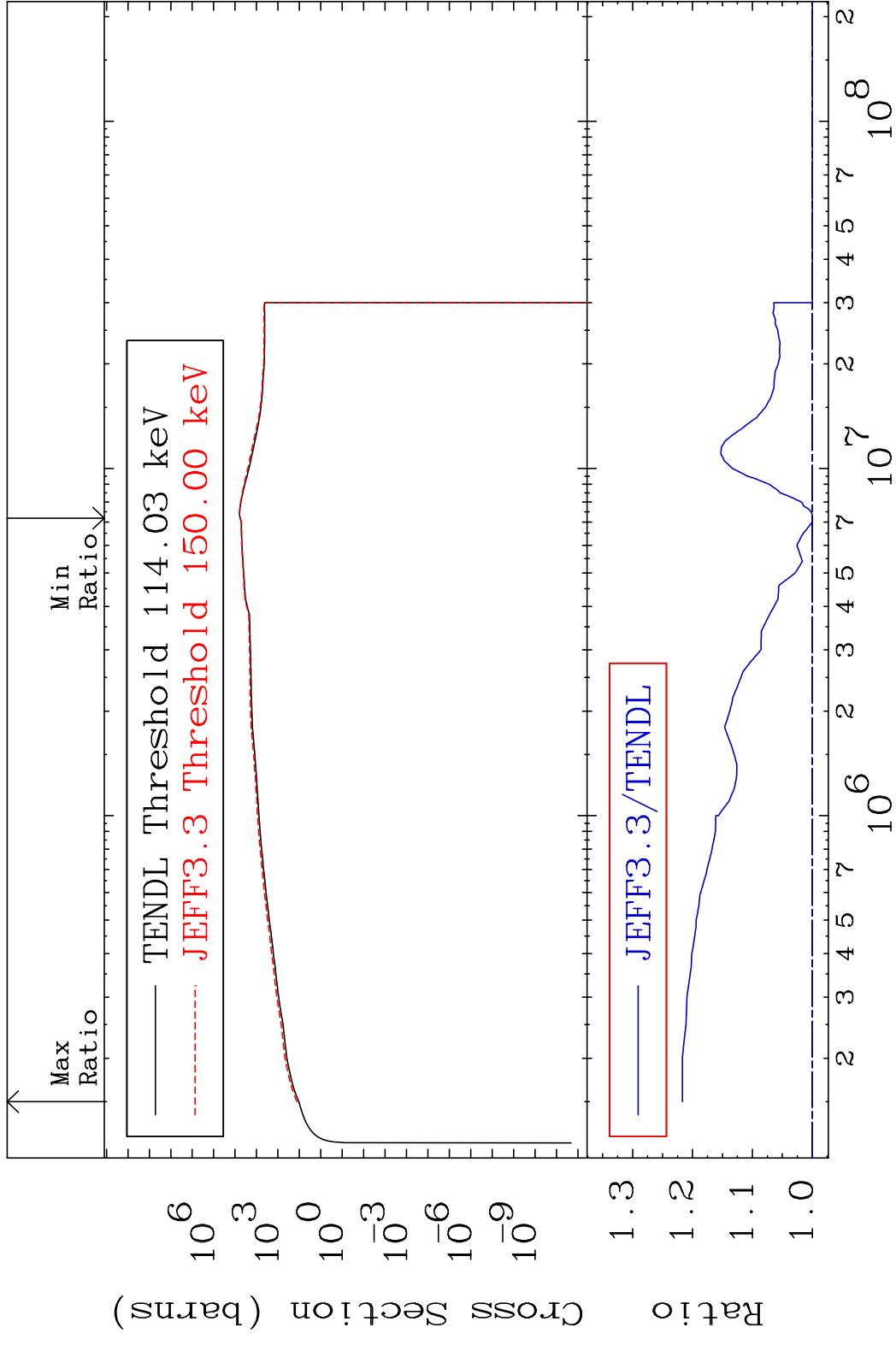


77

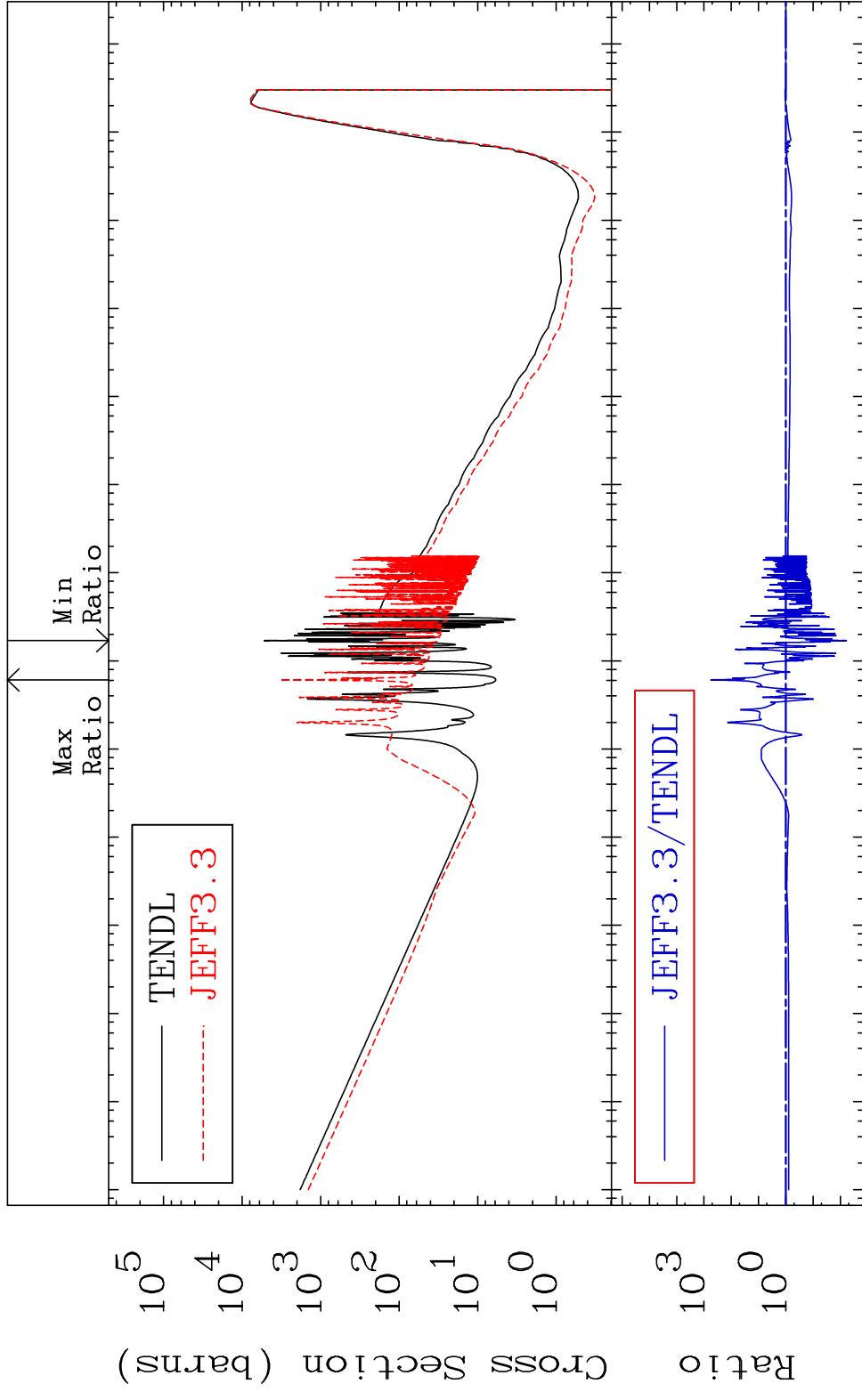
Incident Energy (eV)

74-W -181

MAT 7428 Dpa inelastic (mt51-91) 74-W -181
 Cross Section -0.044 To 21.70 %

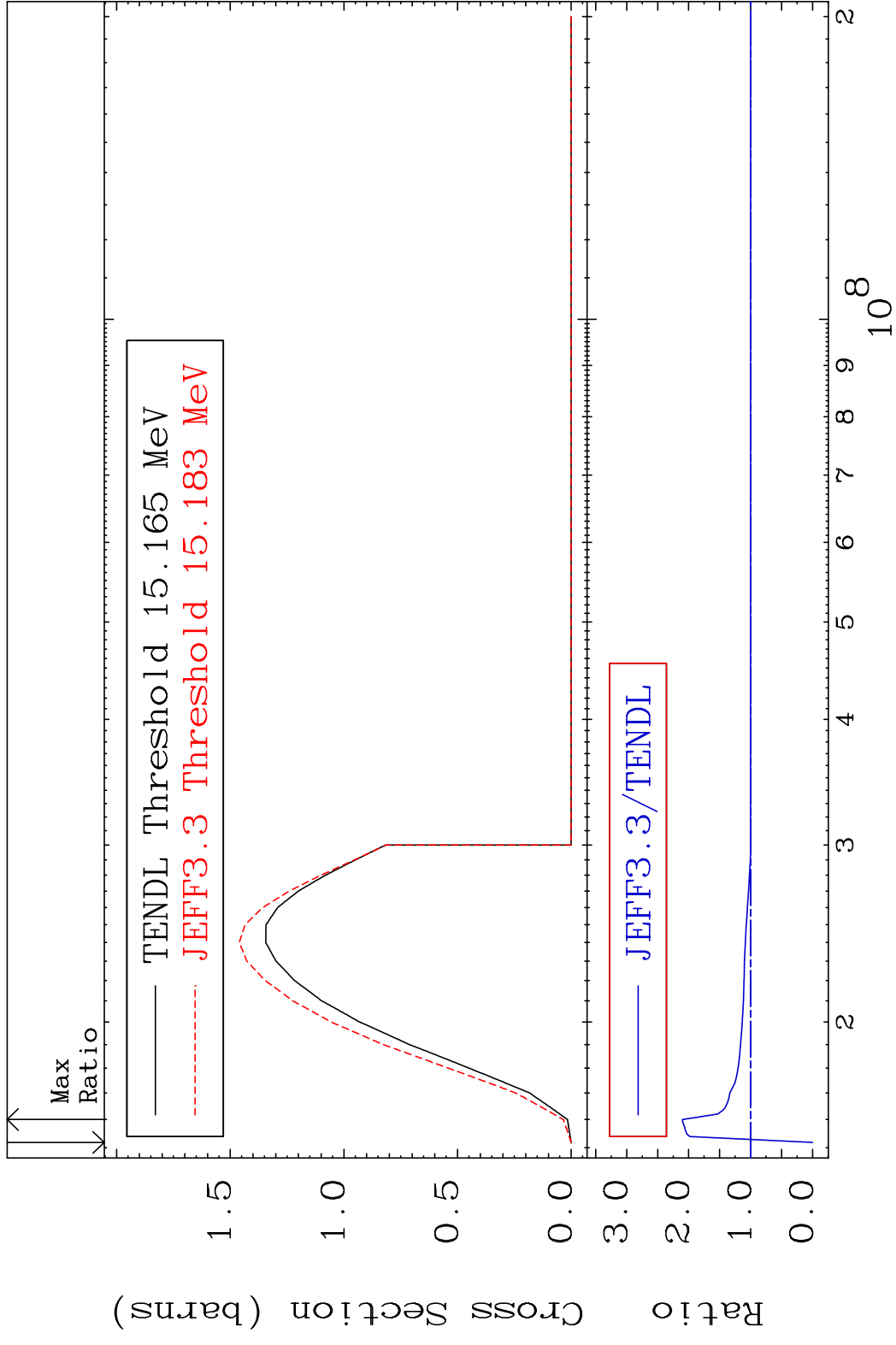


MAT 7428 Dpa disappearance (mt102 -120) 74-W -181
 Cross Section -99.39 To 9999. %

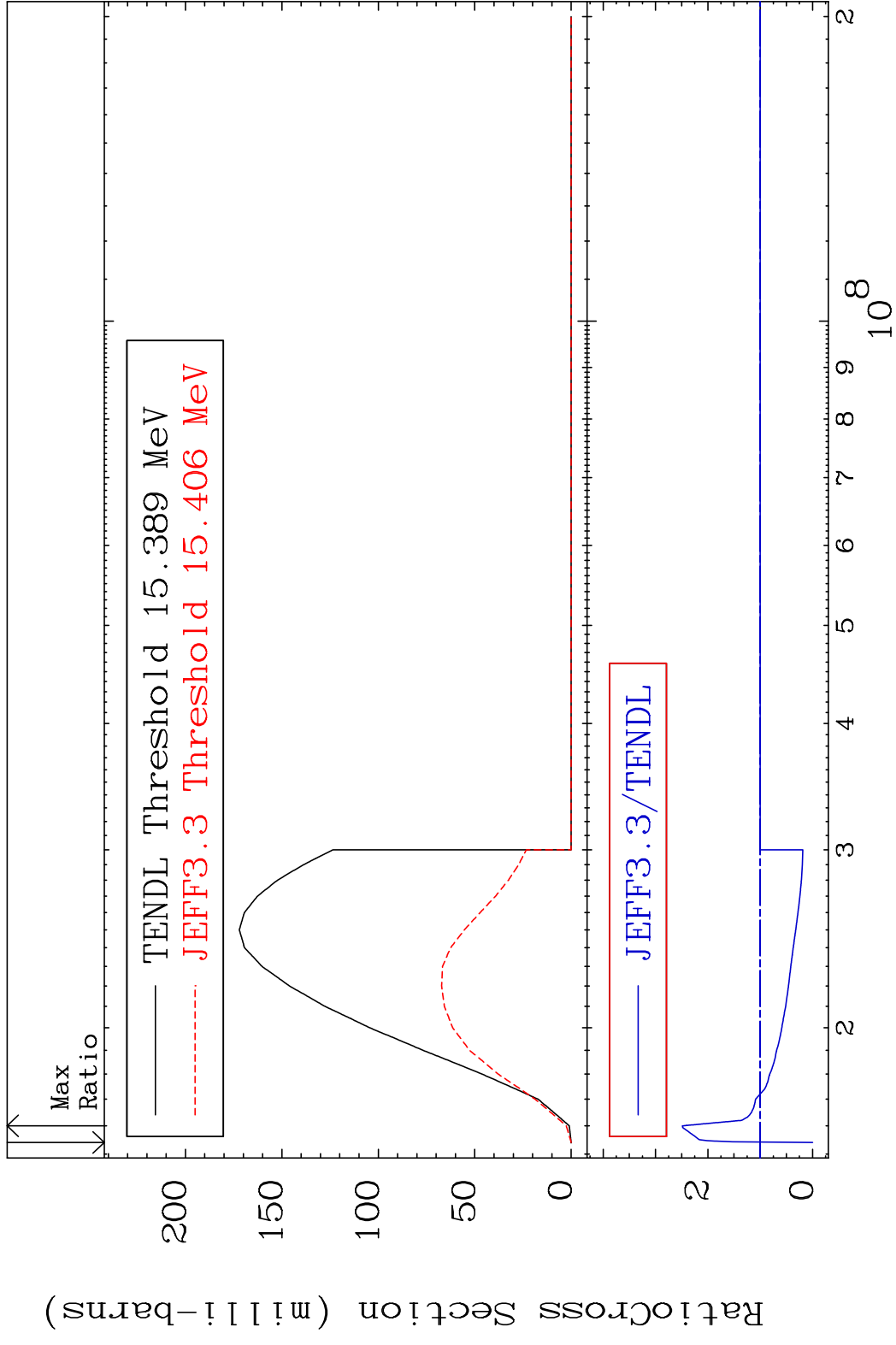


79 Incident Energy (eV) 74-W -181

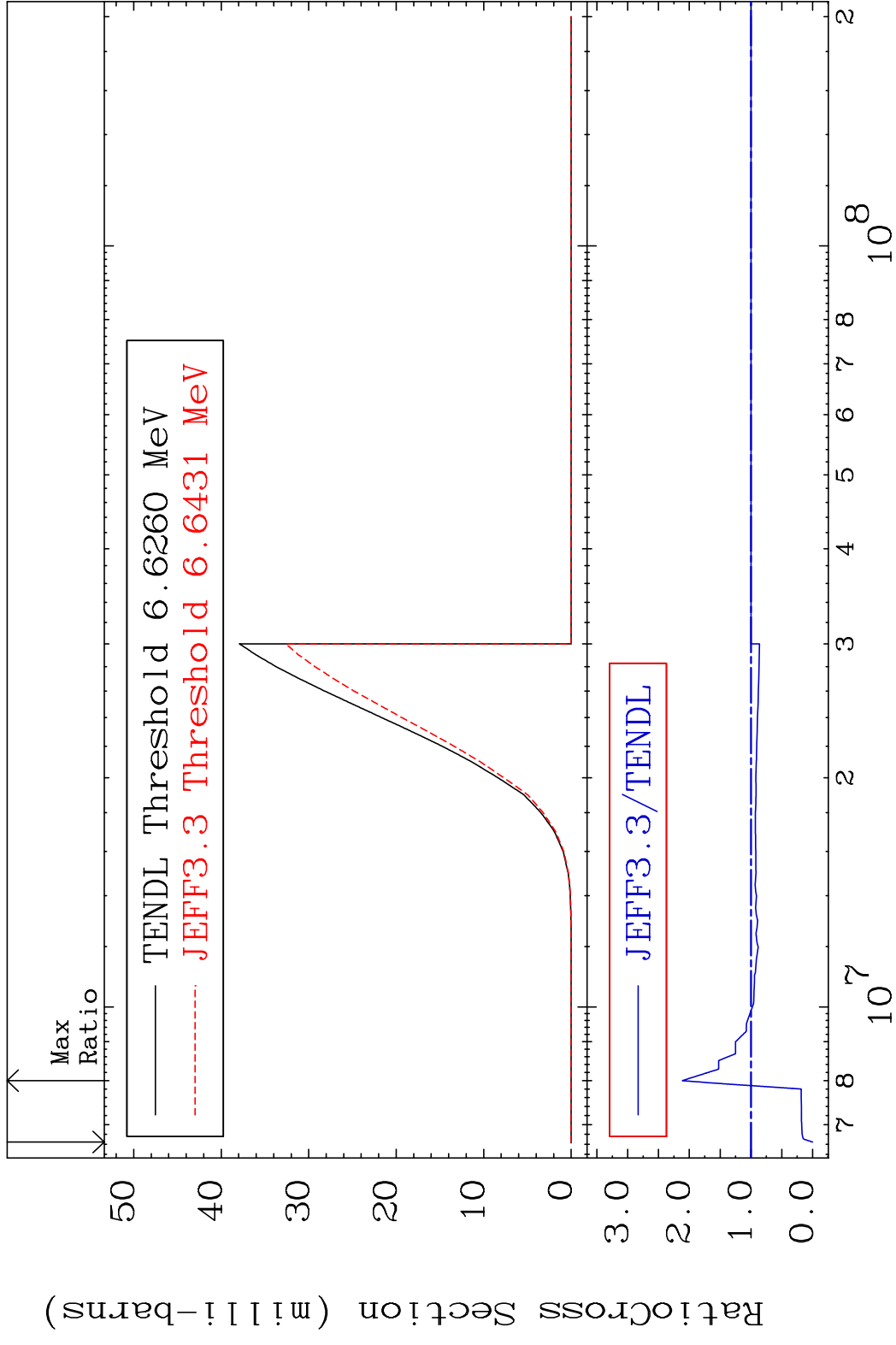
MAT 7428 (n,3n):74-W -179g 74-W -181
 Radionuclide Production Cross Section 180.0 dth 110.2 %

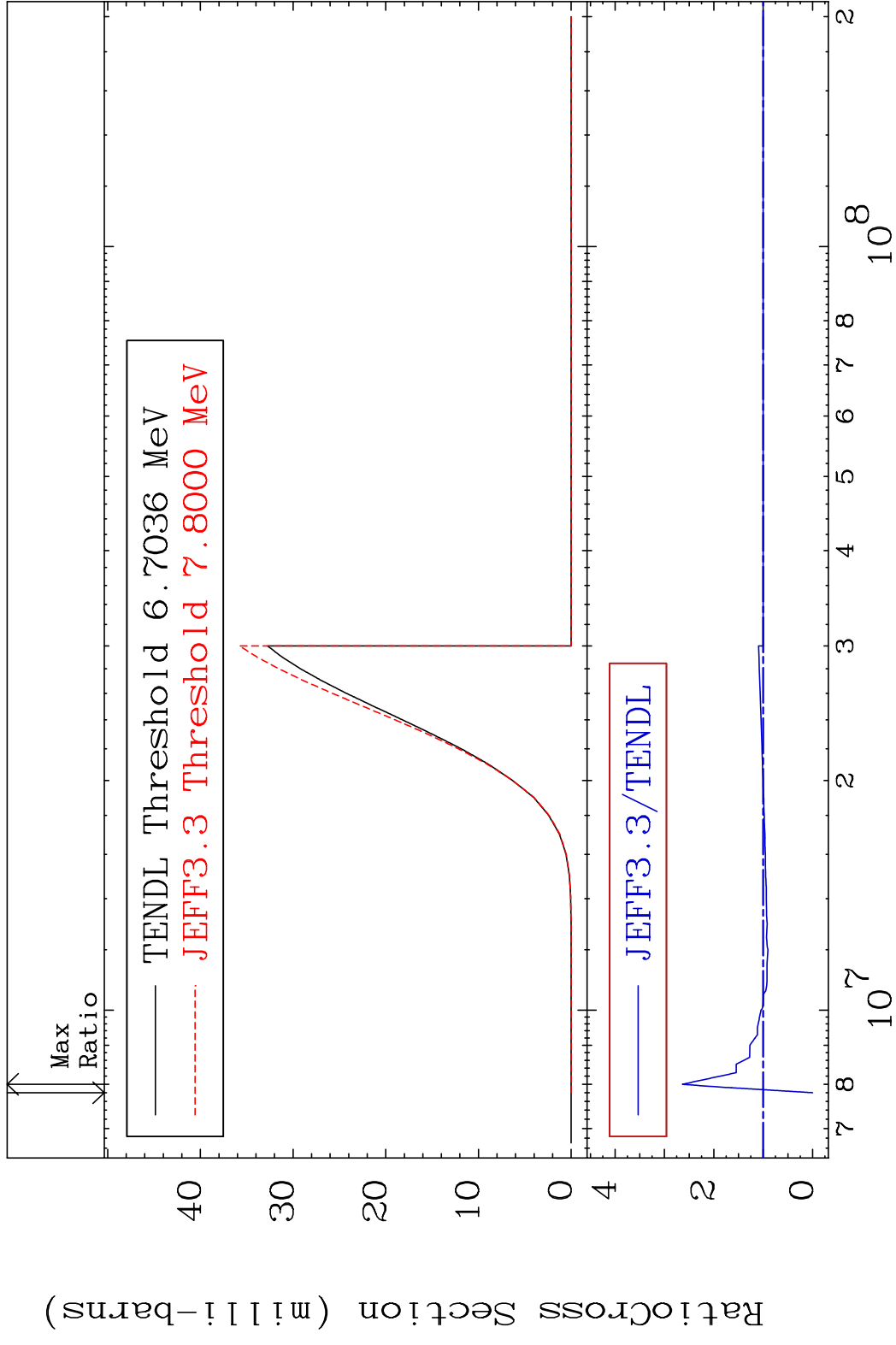


MAT 7428 (n, 3n): 74-W -179m2 74-W -181
 Radionuclide Production Cross Section 180.0 mb 148.7 %

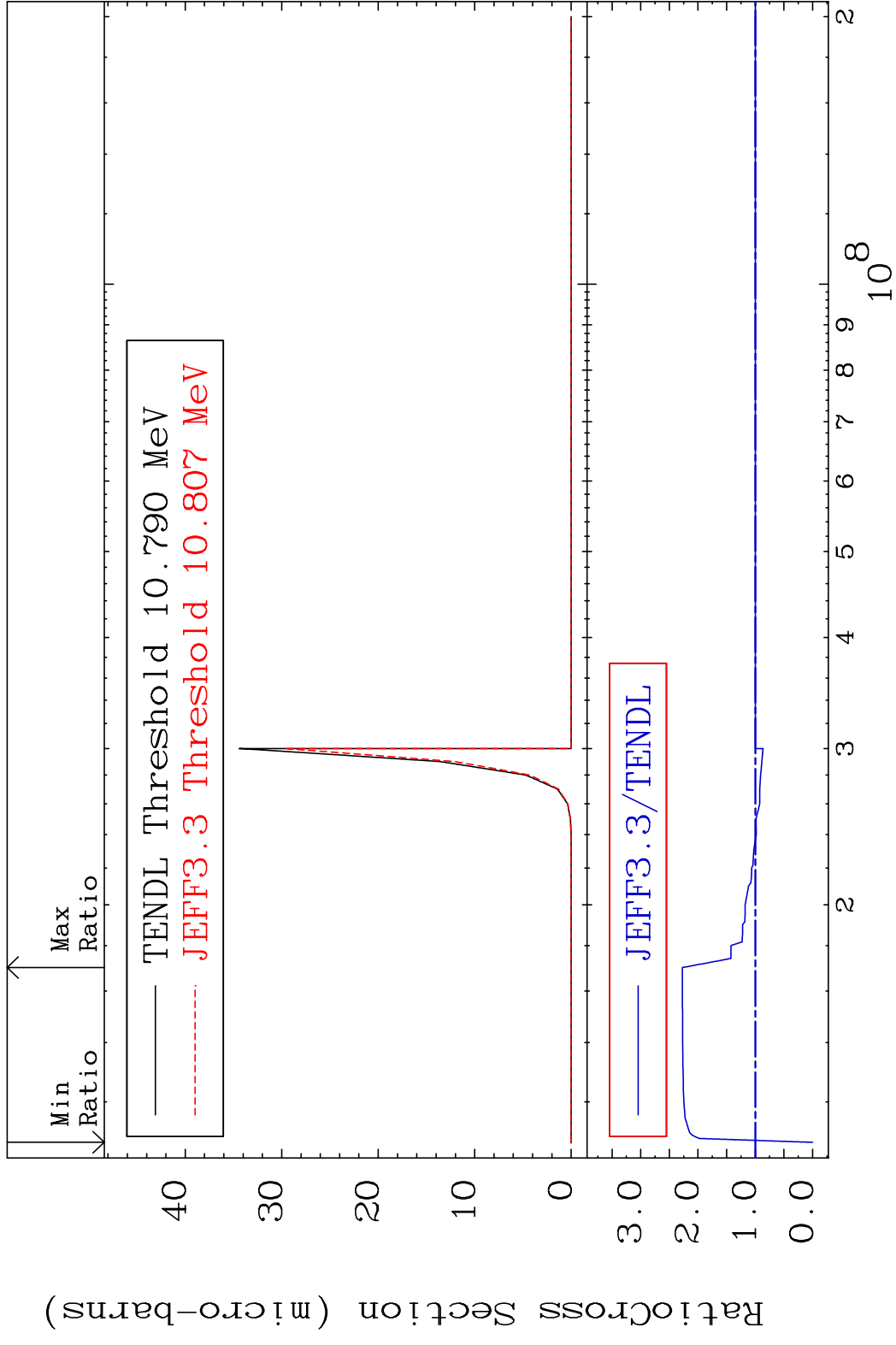


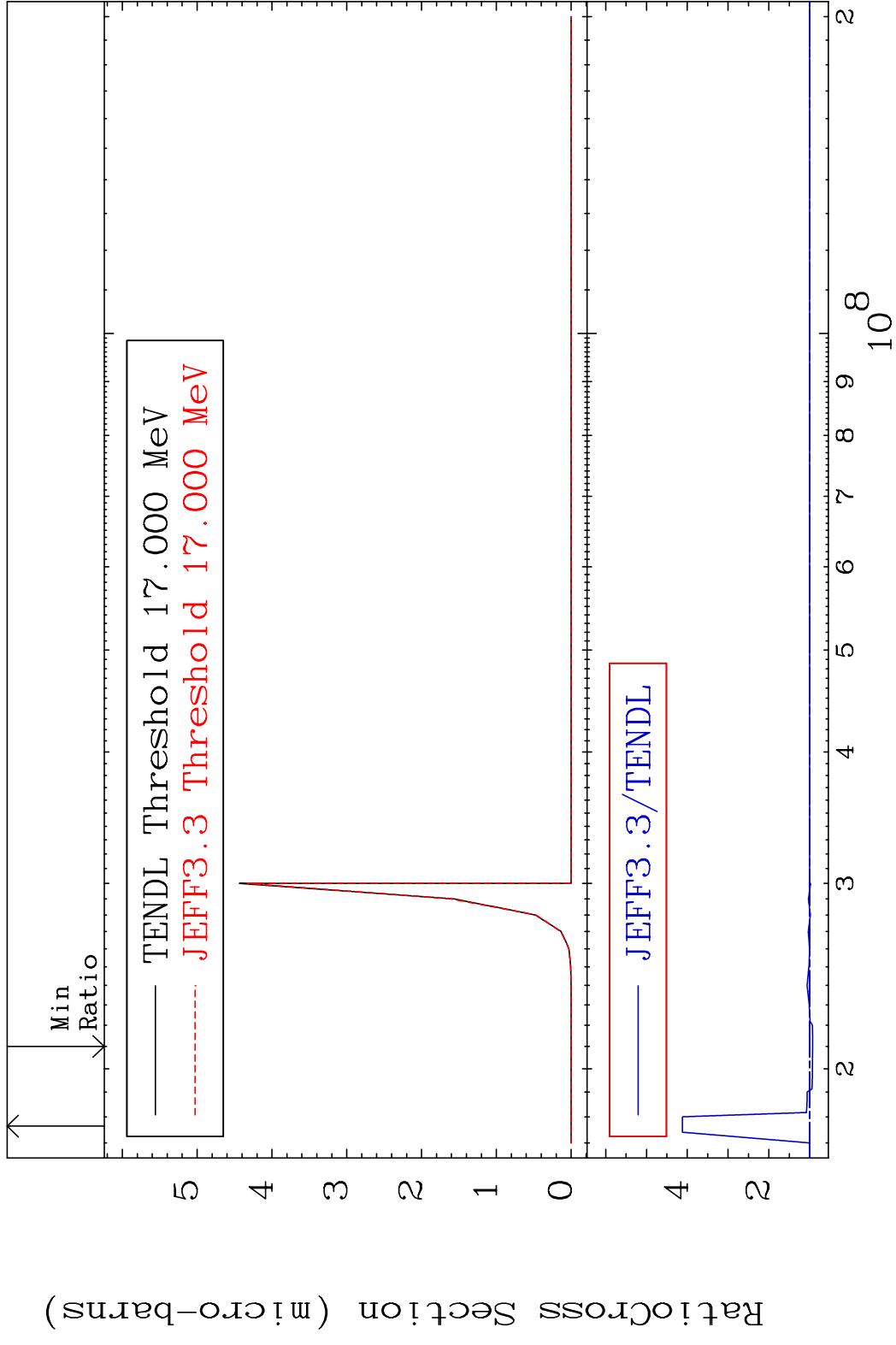
MAT 7428 (n, n') p:73-Ta-180g 74-W -181
 Radionuclide Production Cross Section 180g Ta-180 to 111.3 %

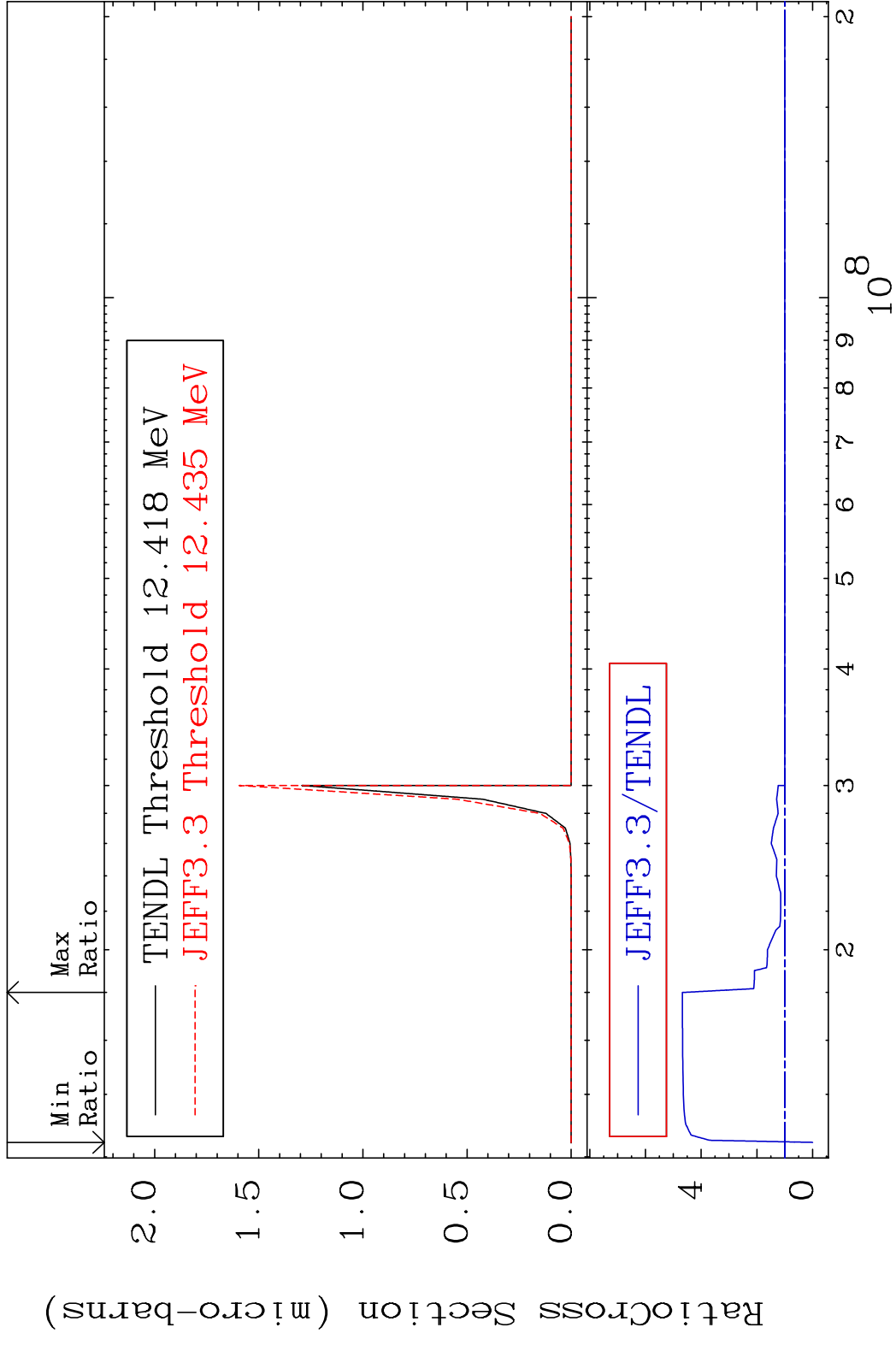


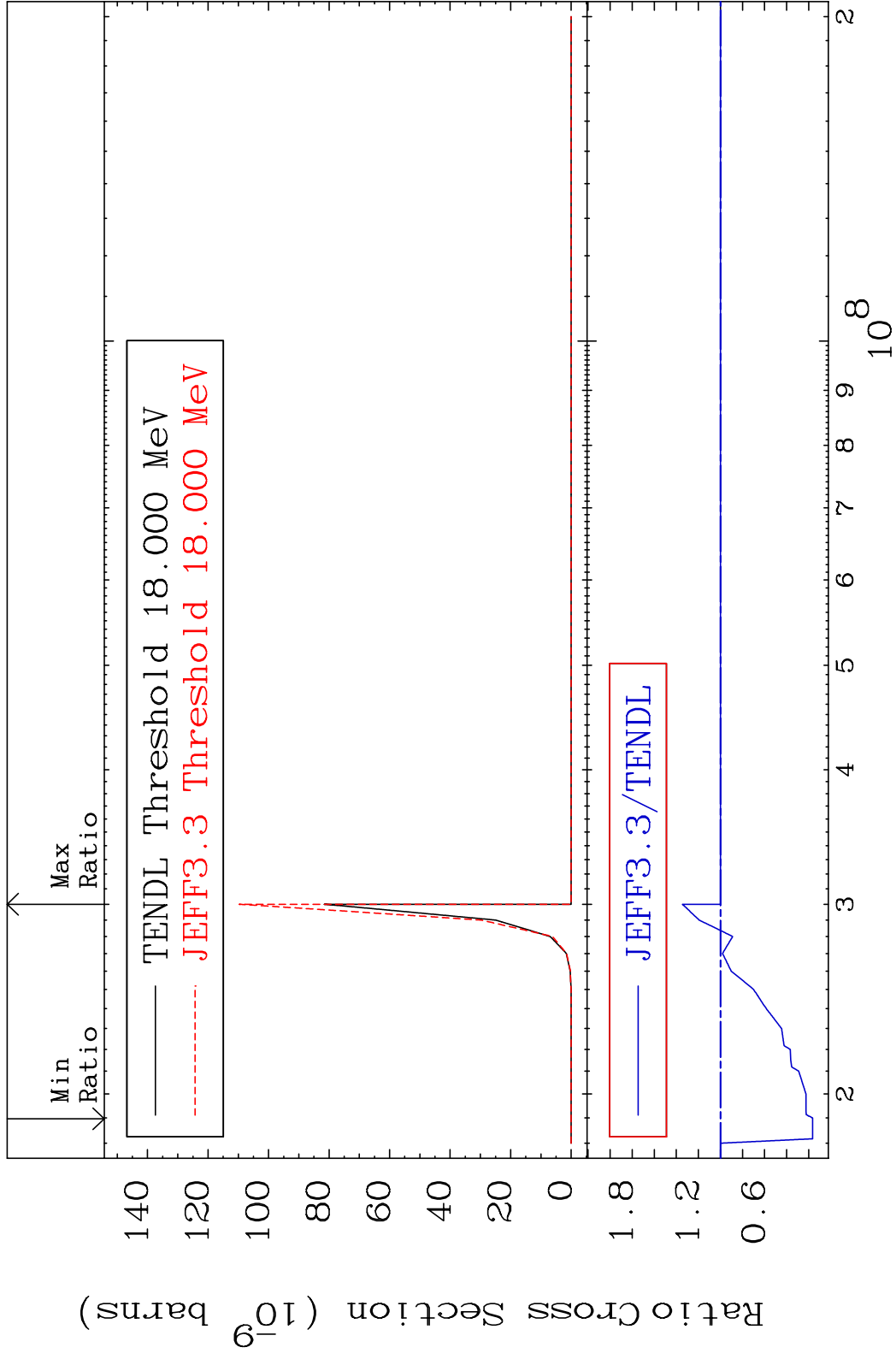


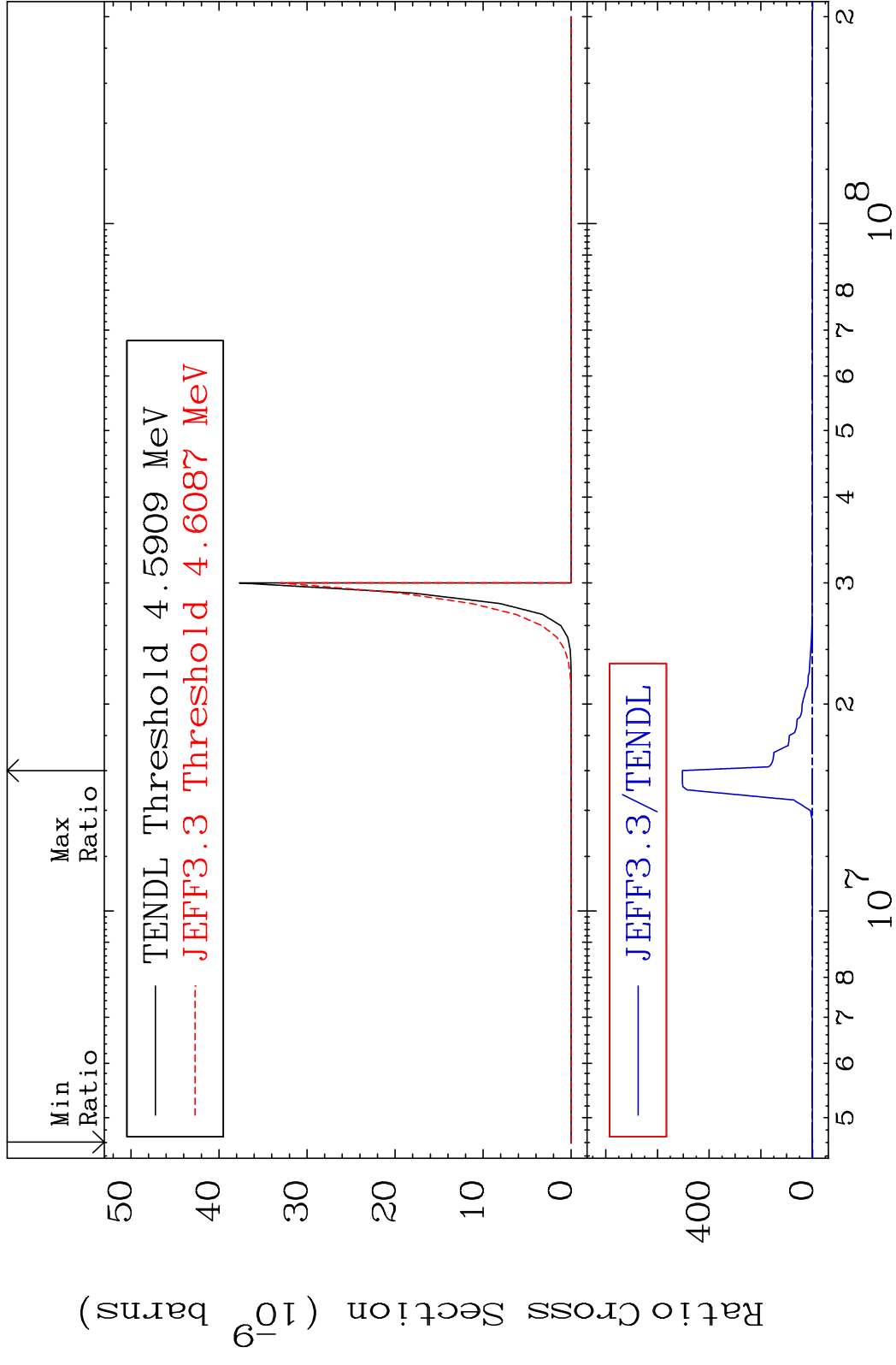
MAT 7428 (n, n') He-3:72-Hf-178g 74-W -181
 Radionuclide Production Cross Section 180.0 dpo 127.3 %

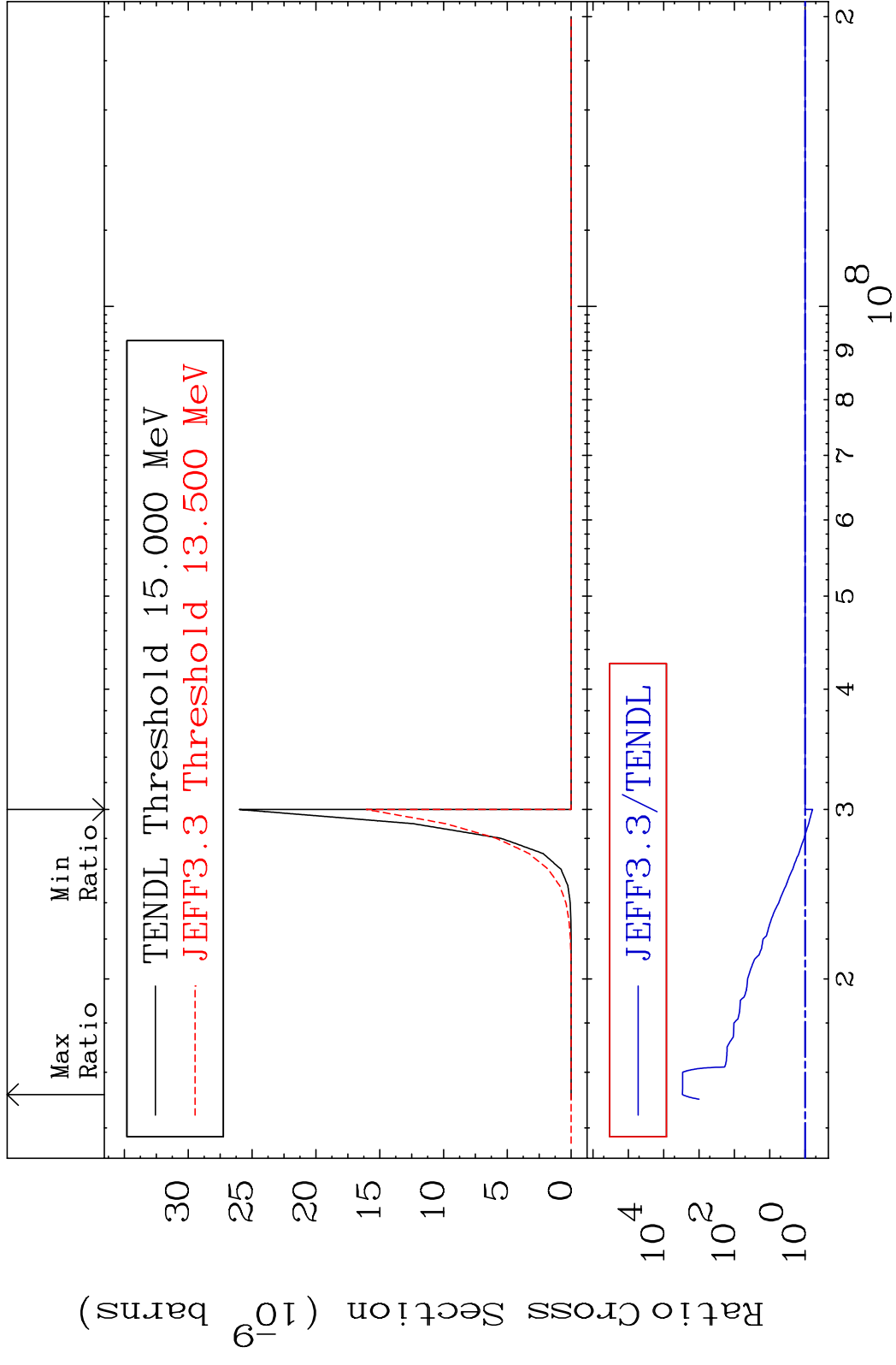




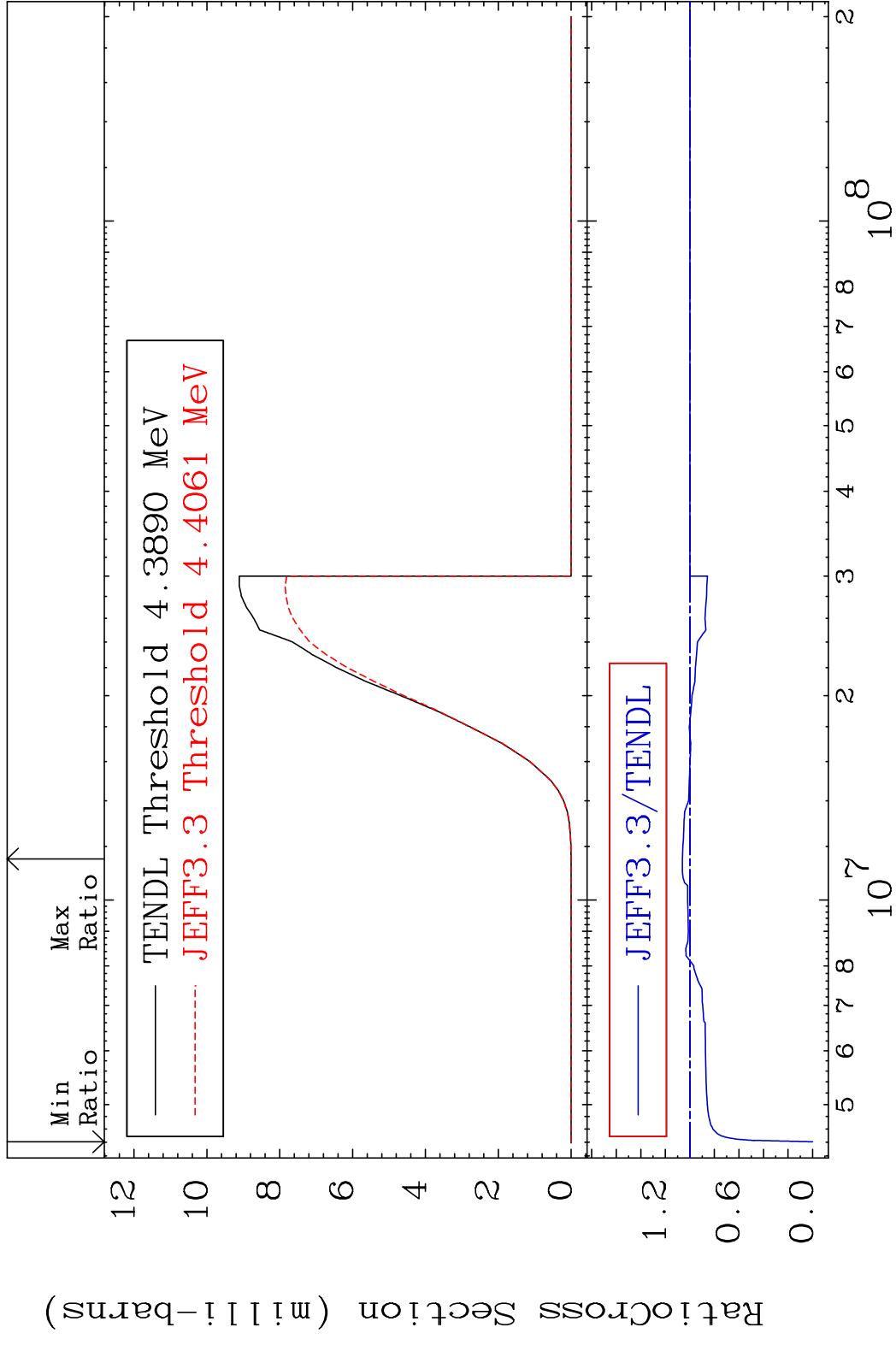




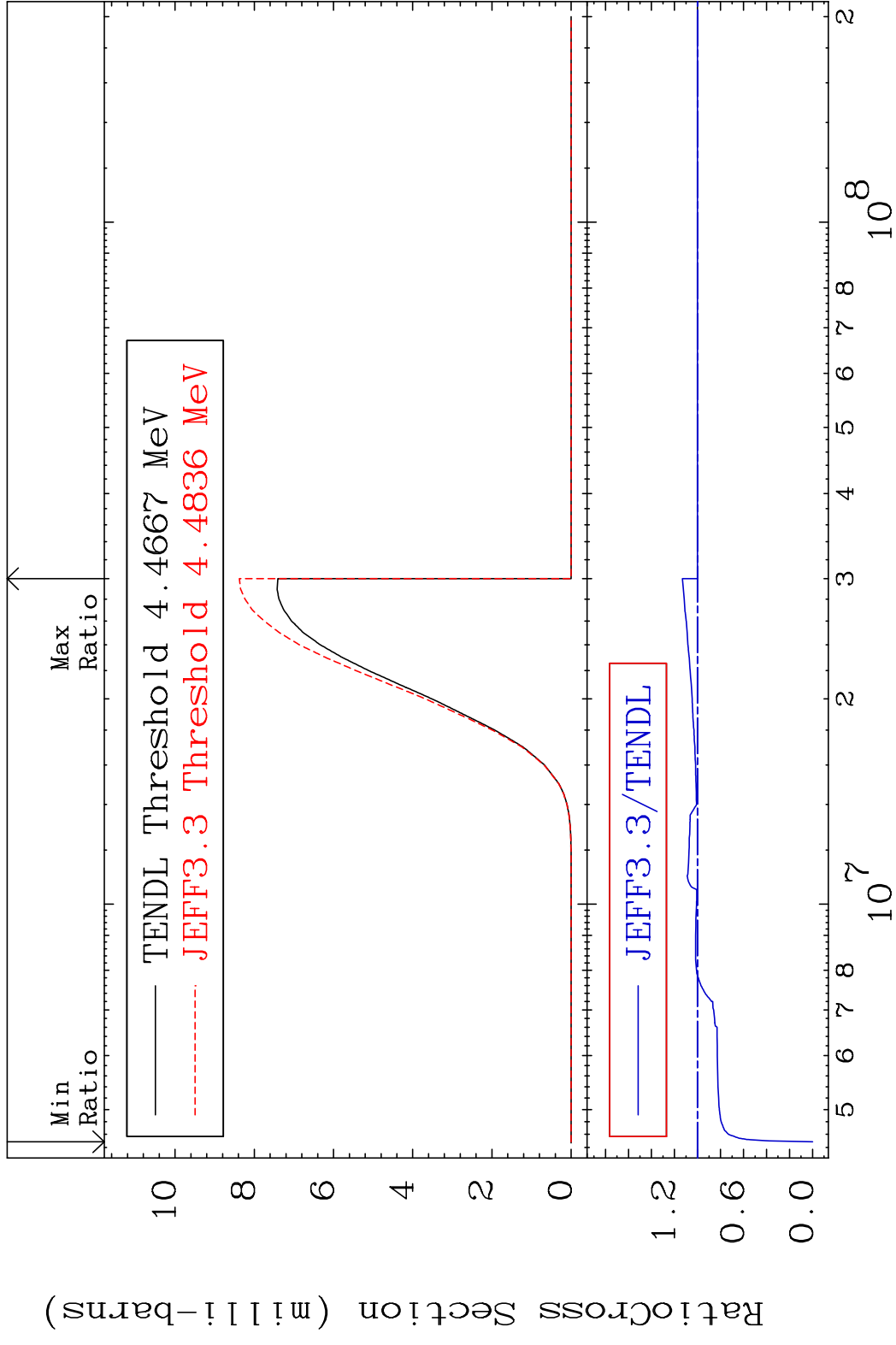


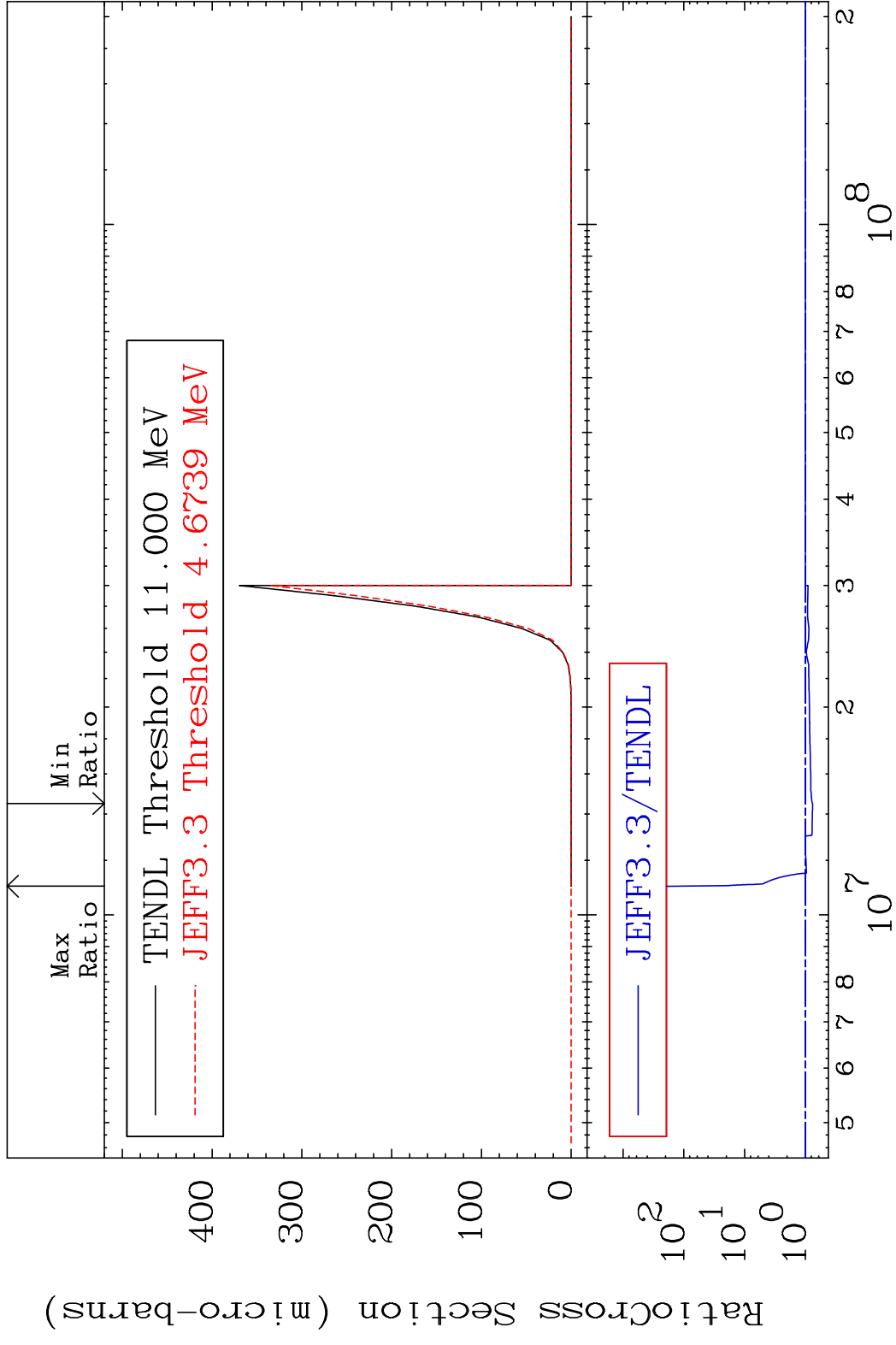


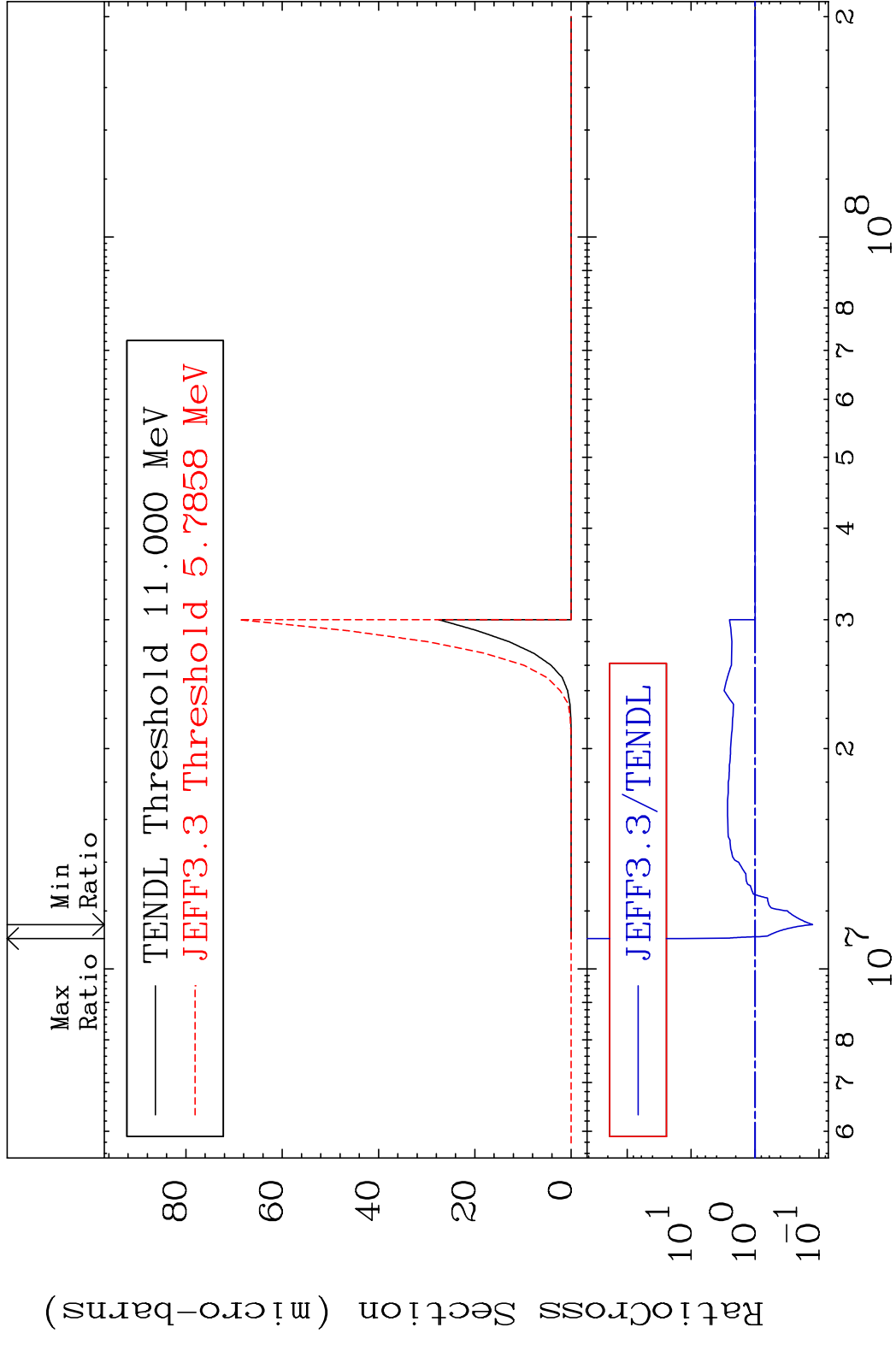
MAT 7428 (n, d): 73-Ta-180g 74-W -181
 Radionuclide Production Cross Section 6.129 %



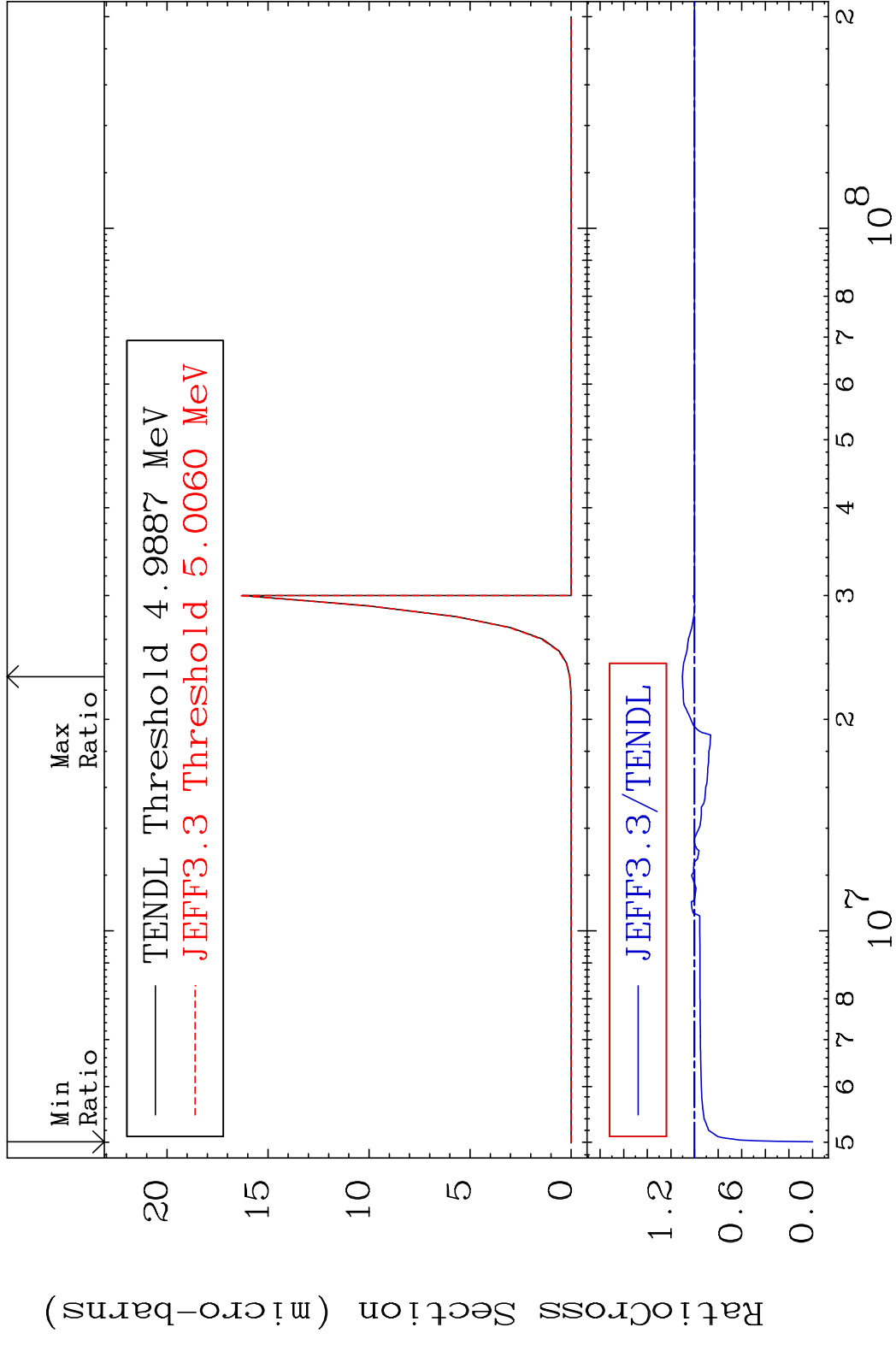
MAT 7428 (n, d): 73-Ta-180m2 74-W -181
 Radionuclide Production Cross Section 13.17 %



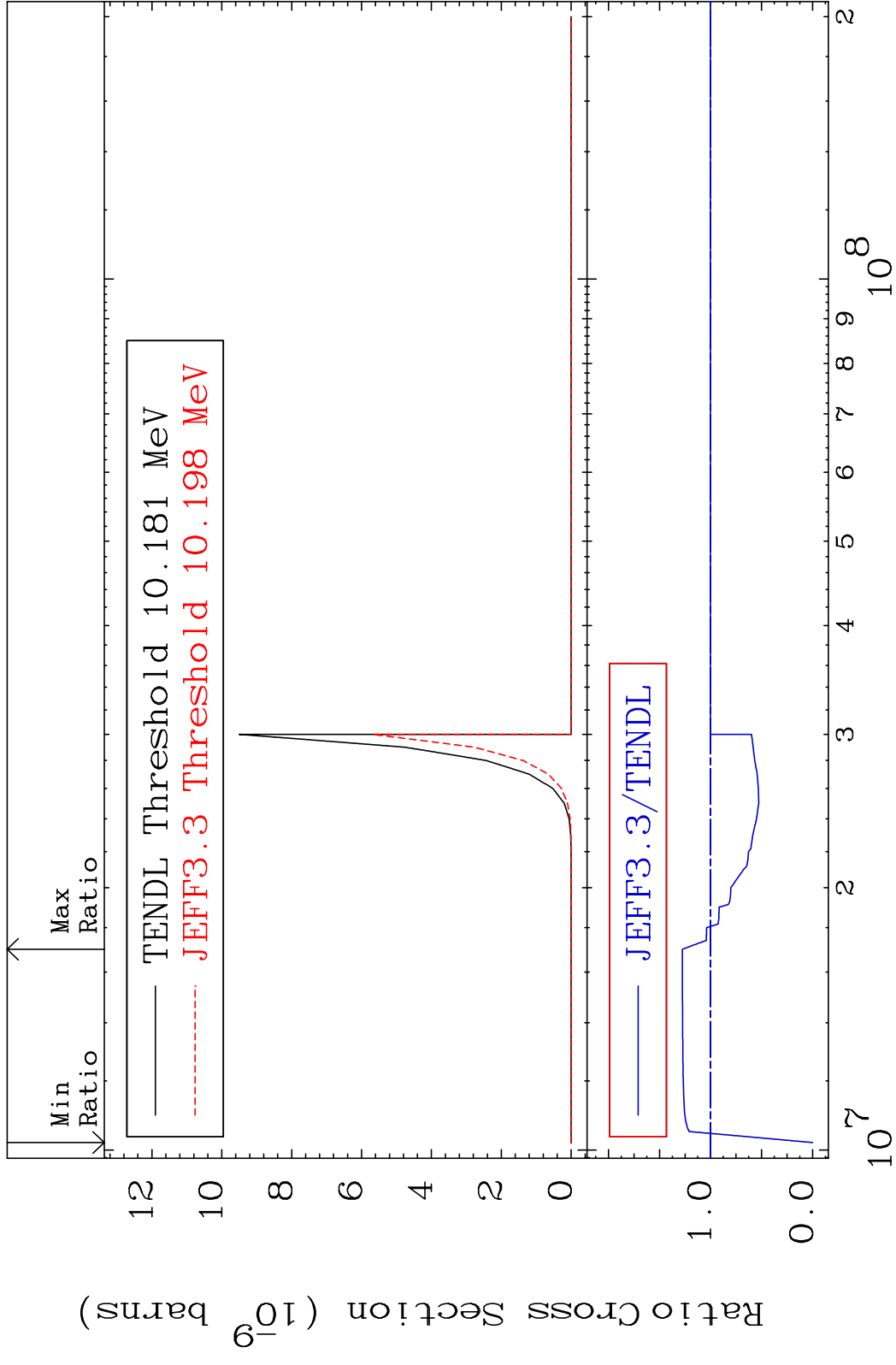


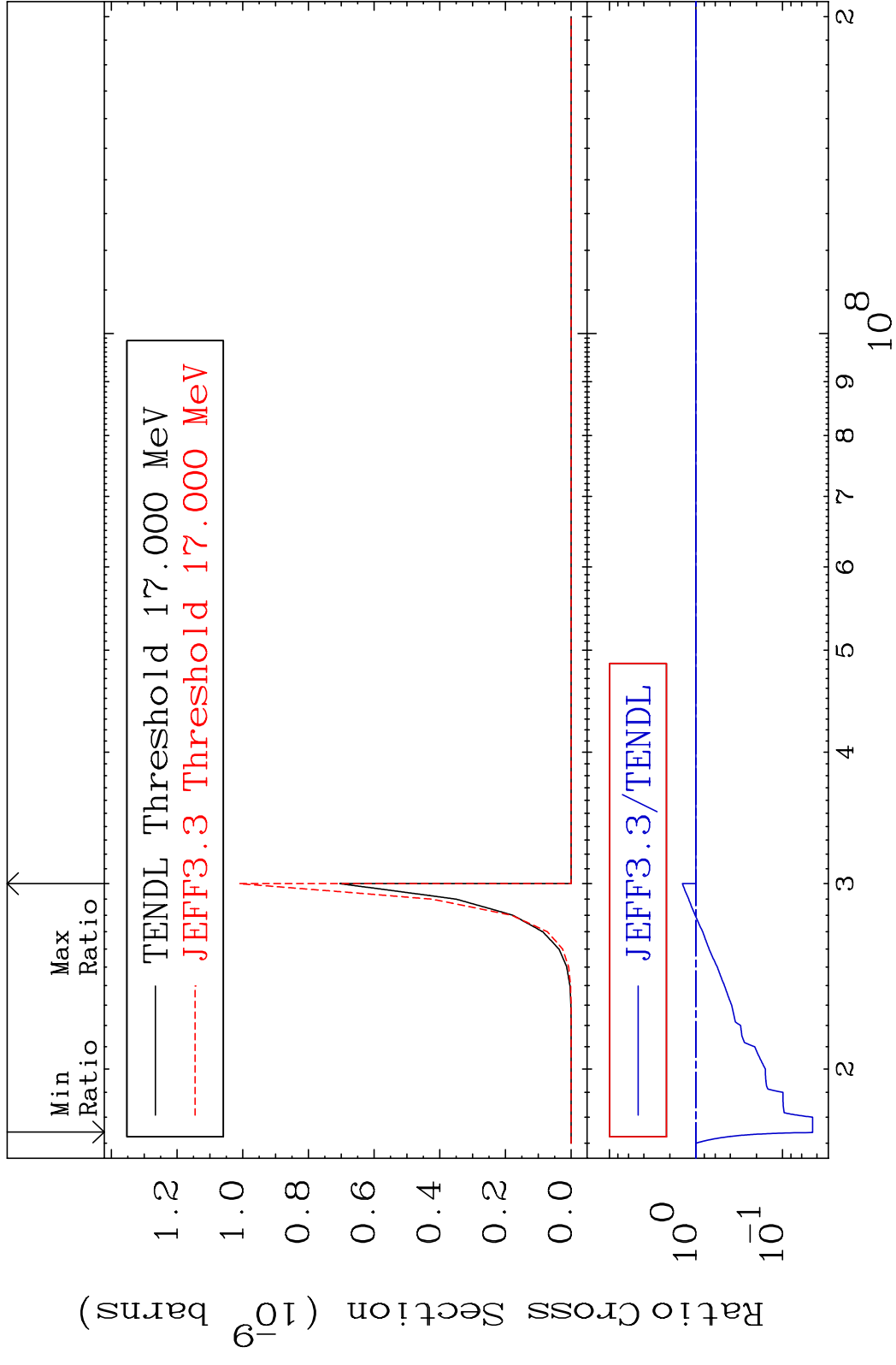


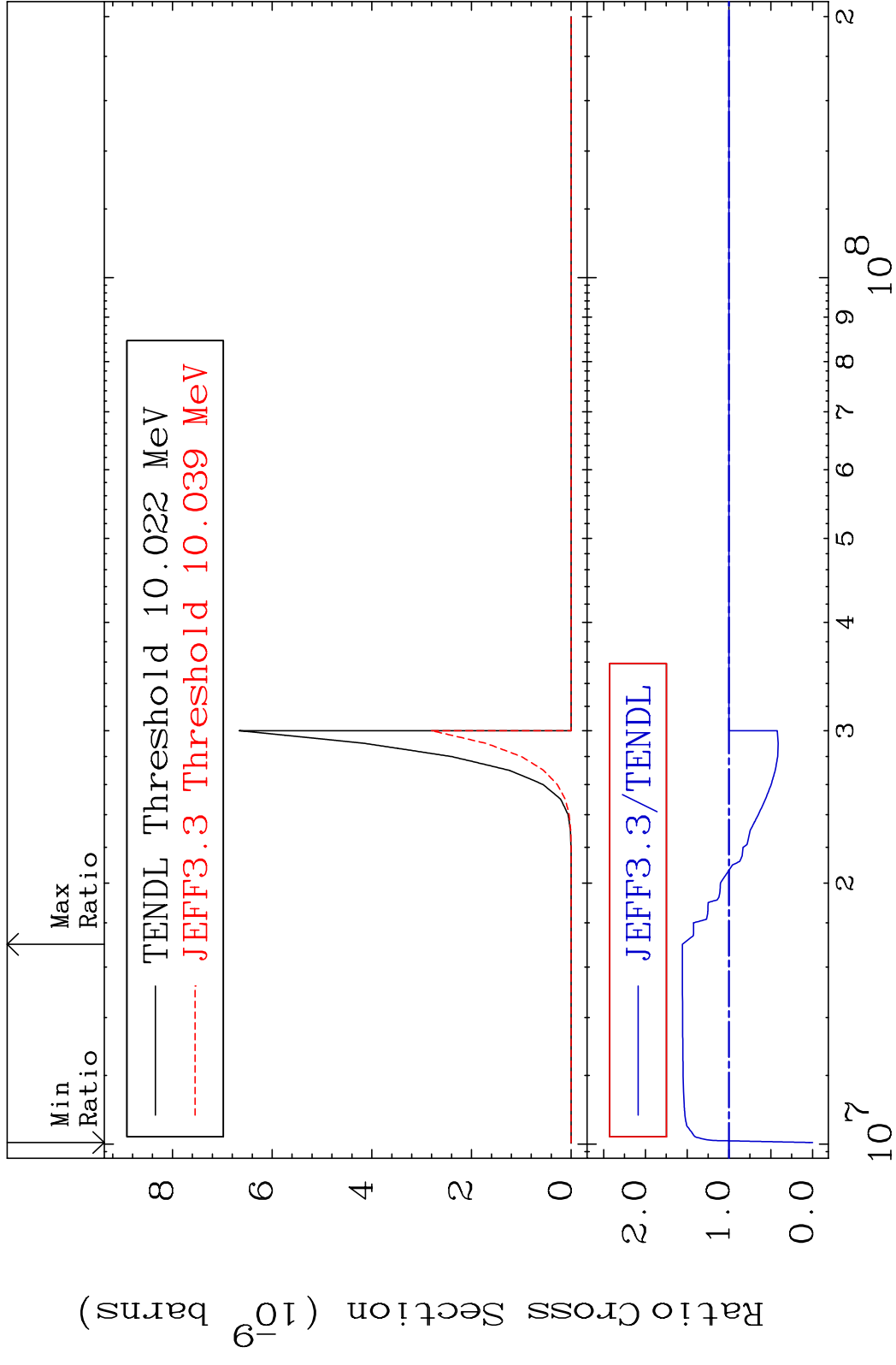
MAT 7428 (n,2p):72-Hf-180g 74-W -181
 Radionuclide Production Cross Section 10.30 %

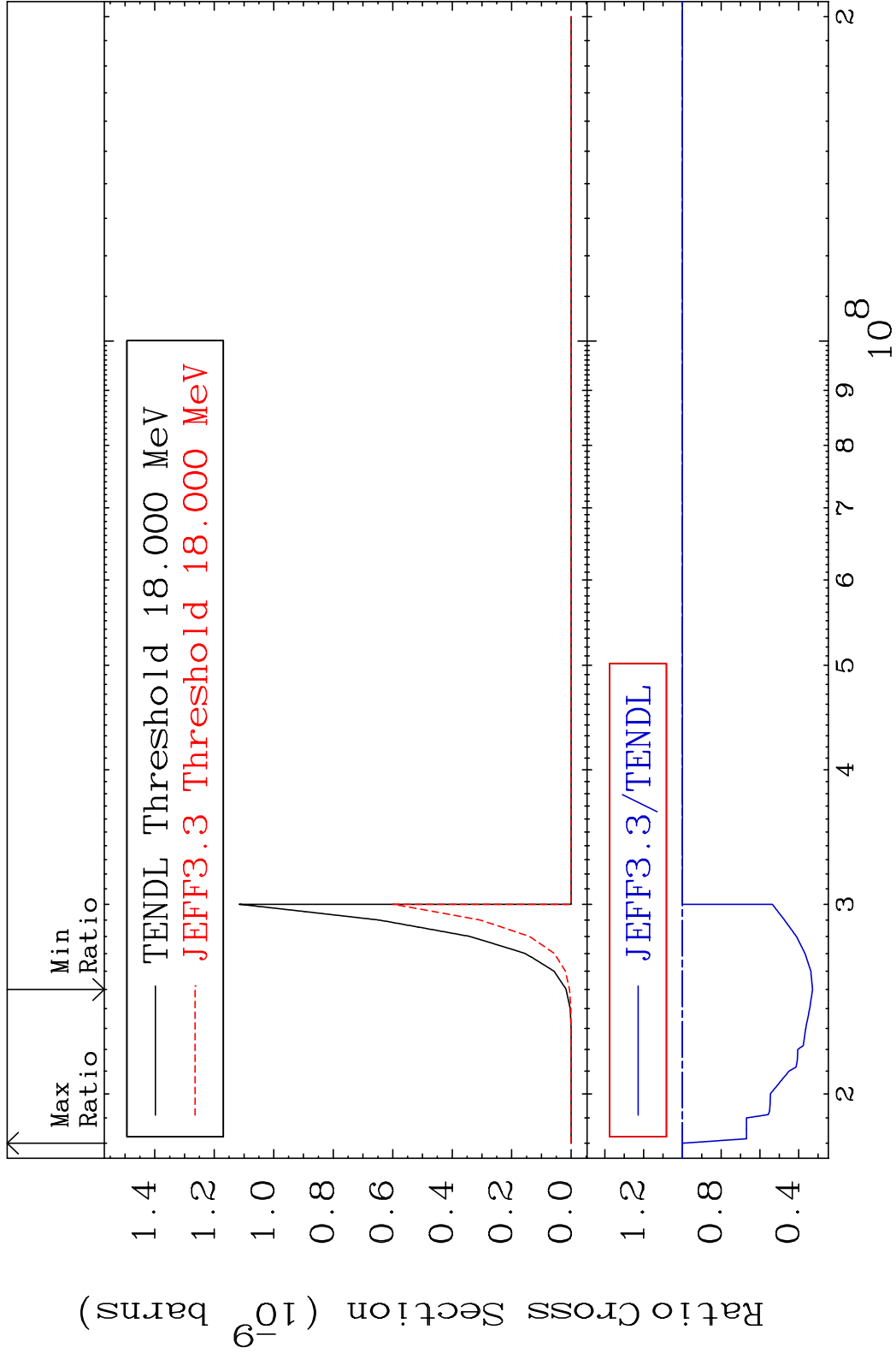


MAT 7428 (n,p) d:72-Hf-179g 74-W -181
 Radionuclide Production Cross Section Ratio 27.61 %

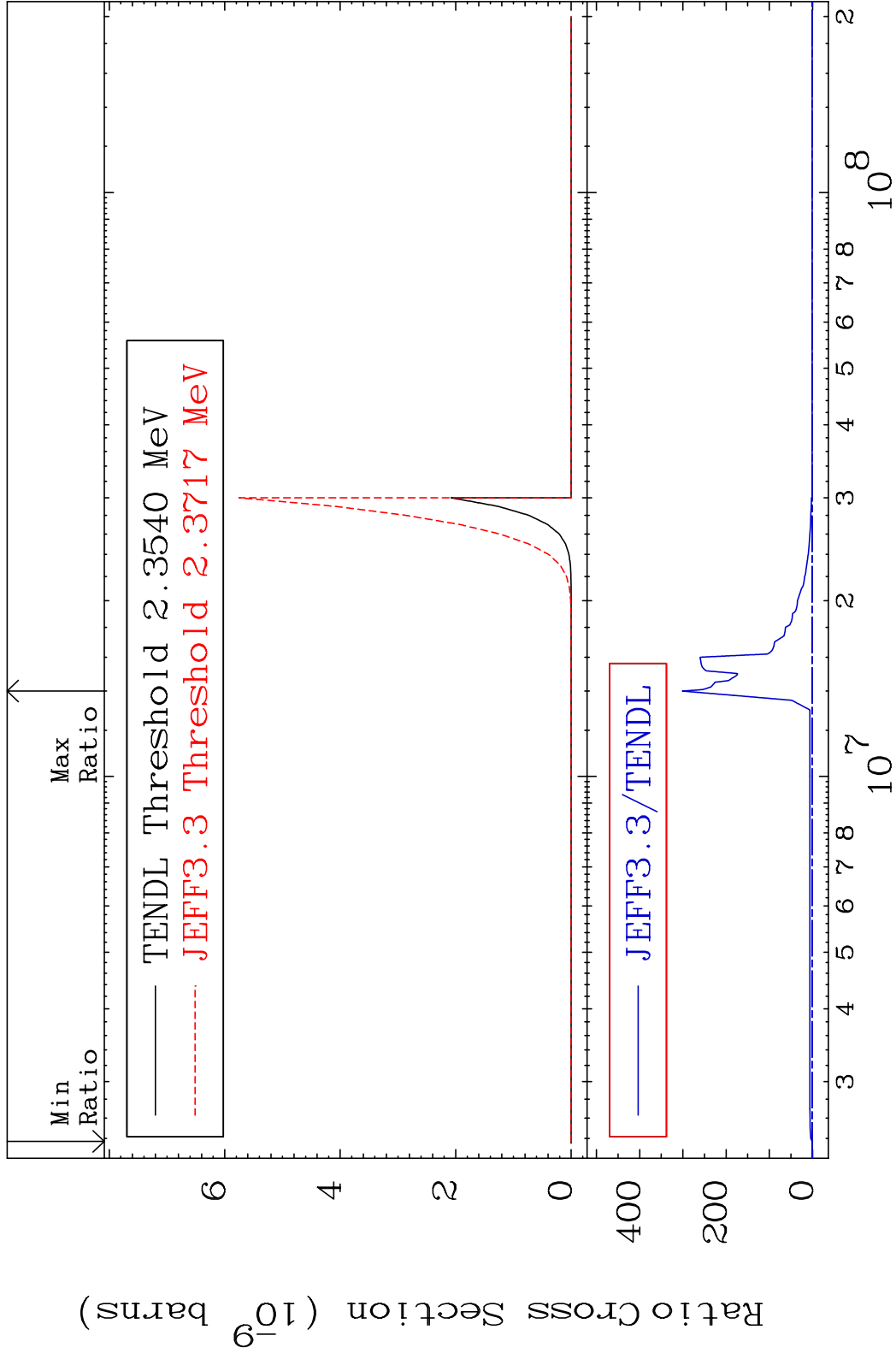




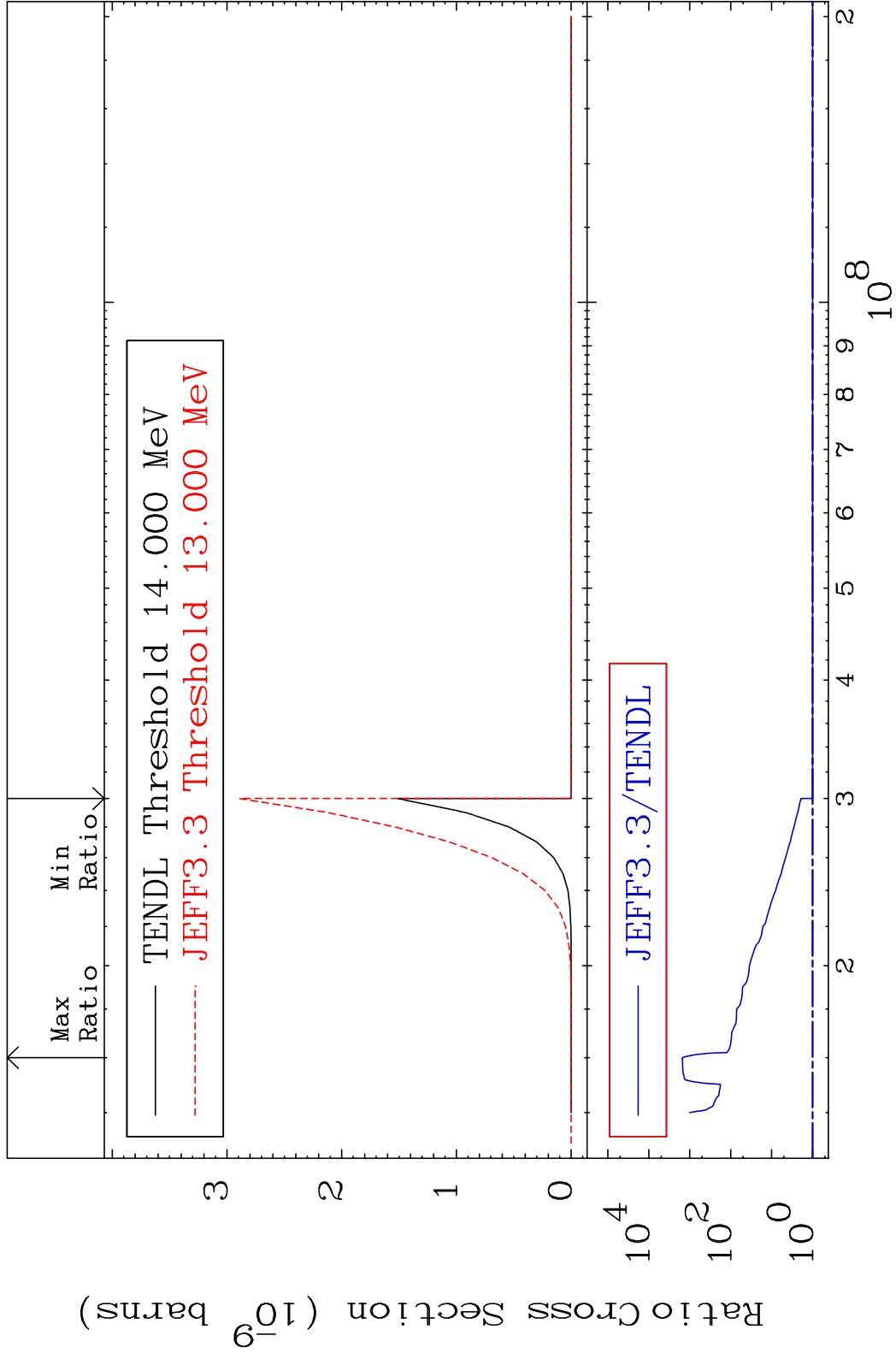




MAT 7428 (n, d) α :71-Lu-176g 74-W -181
 Radionuclide Production Cross Section Ratio 9999. %



MAT 7428 (n,d) α :71-Lu-176m1 74-W -181
 Radionuclide Production Cross Section 9999. %



100 Incident Energy (eV) 74-W -181